SCHEMATIC DIAGRAM

Models LC-26GA5U
LC-32GA5U

CONTENTS

	Page
DESCRIPTION OF SCHEMATIC DIAGRAM	D2
AV Unit	D3 ~ D16
CPU Unit	D17 ~ D26
MAIN Unit	D27 ~ D48
LCD CONTROL Unit	D49 ~ D68
KEY Unit	D69 ~ D70
POWER Unit (LC-26GA5U)	D71 ~ D72
POWER Unit (LC-32GA5U)	D73 ~ D74
INVERTER Unit (LC-26GA5U)	D75 ~ D76
INVERTER GROUND Unit (LC-26GA5U)	D77 ~ D78
INVERTER-1 Unit (LC-32GA5U)	D79
INVERTER-2 Unit (LC-32GA5U)	D80
INVERTER GROUND Unit (LC-32GA5U)	D81 ~ D82
R/C, LED Unit	D83

DESCRIPTION OF SCHEMATIC DIAGRAM

VOLTAGE MEASUREMENT CONDITION:

1. When the exclusive-use AC adapter is used, the colour bar signal of colour bar generator for service is input to get the normal screen. When the audio is minimized, the voltage value is measured with the 20 kΩ/V tester.

WAVEFORM MEASUREMENT CONDITION:

1. When the exclusive-use AC adapter is used, the colour density, lightness and colour hue are set to the center position, and the signal of colour bar generator for service is observed to get waveform.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω" is omitted. (K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. All resistors are Carbon type, unless otherwise noted.
   Ⓒ: Solid Ⓦ : Cement
   Ⓢ: Oxide Film Ⓣ : Special
   Ⓝ: Metal Coating

CAPACITOR

1. All capacitors are mF, unless otherwise noted. (P=pF=mmF).
2. All capacitors are Ceramic type, unless otherwise noted.
   (ML) : Mylar (TA) : Tantalum
   (PF) : Polypro Film (ST) : Styrol

CAUTION:
This circuit diagram is original one, therefore there may be a slight difference from yours.

IMPORTANT SAFETY NOTICE:
PARTS MARKED WITH "⚠" ( ) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

■AV Unit-1/7

AV1

MAIN TUNER
TU1101
ATMQH2-004

IC1101
PQ050DZ1

IC1105
M62334FP

IC1103
BA7655AF

Q1104 2SA1530AR
Q1112 2SA1530AR
Q1111 2SC3928AR
Q1106 2SC3928AR
Q1105 2SC3928AR
Q1113 EX2341R
Q1129 1SS355
D1130 EX1395CE 6.2V

AV UNIT 1/7
*PWB1101
DUNTKC790WEV0/V1
(PWBXC790WJ)

LUG1103 HA0068J
LUG1104 HA0068J
LUG1105 HA0068J
LUG1106 HA0068J

TO_AV3
UR+6V
+9V
+35V

TO_AV4
SIF1
SIF2

TO_AV3
MFIL_SEL
AFT1
AFT2
AGC1
AGC2
C1.PLUG

TO_AV2
CVBS1
CVBS2
SCL3
SDA3
S2.DC
C1.Y
C1.PB
C1.PR
V1.Y
V1.L
V1.R
V3.C
V3.Y
V3.S
V2.L
V2.R
V2.V
V3.V
V3.L
V3.R
V2.Y
C2.PB
C2.PR
OW
YM
VM
V3.F
MUTE.R
C2.PLUG

TO_AV4
UM
RM
C1.PLUG
S.MUTE

TO_AV3
+5V

J1106 JA0649J
J1101 JA0649J
J1105 00834CE
J1107 JA0656J

VIDEO2
VIDEO1
OUTPUT
VIDEO3

COMP2
CONP1

MUTE Q1102 DTC314TK
MUTE Q1103 DTC314TK

BUFFER Q1132 2SA1530AR
BUFFER Q1130 2SA1530AR

Q1113 2SC3928AR
Q1203 2SA1530AR
Q1148 2SA1530AR
Q1114 2SC3928AR
Q1204 2SA1530AR
Q1115 2SC3928AR

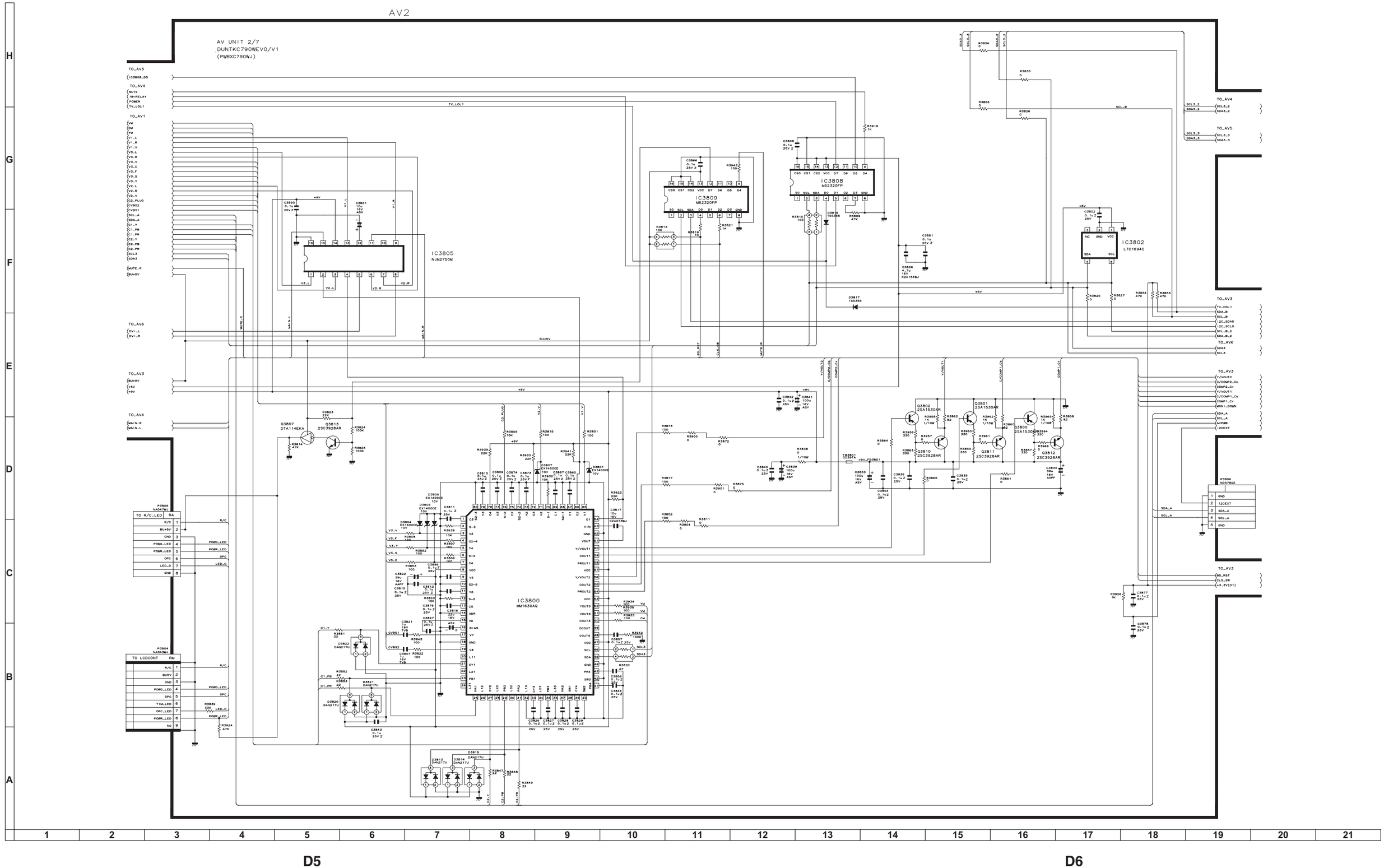
IC1102
ME2320FF

D3 D4

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

A B C D E F G H

■AV Unit-2/7



D5 D6

■AV Unit-3/7

AV3

AV UNIT 3/7
DUNTKC790WEV0/V1
(PWBXC790WJ)

TO_AV1
+9V
UR+6V
+5V
+35V

P5703
NA051WJ
TO_POWER | PA
UR+35V 1
UR+10V 2
GND 3
GND 4
UR+6V 5
BU+5V 6
GND 7
+13V 8
+13V 9
S_GND 10
F_GND 11
+3.3V(D) 12

R5720 0 1/10W
R5721 0 1/10W

+9V REG
IC5701
PQ09DZ1U
C5701 0.1u Z 25V
C5702 100u 16V ASY
C5704 0.1u Z 25V
C5703 100u 16V ASY
R5701 10K

+8V REG
IC5702
BA08SFP
C5708 0.1u Z 25V
C5707 100u 16V ASY
C5705 0.1u Z 25V
C5706 100u 16V ASY
R5702 10K

Q5706
RT1N141U
R5774 22K
Q5707
2SC3928AR
R5722 22K
R5704 1K

+5V REG
IC5706
PQ05DZ1U
C5736 0.1u Z 25V
C5738 100u 16V ASY
C5739 100u 16V ASY

+3.3V REG
IC5705
BA033FP
C5724 1000P
C5726 1000P
C5727 1000P
C5723 100u 16V ASY
C5721 0.1u Z 25V

C3137 10u 16V ASX
C3136 0.1u Z 25V
C3138 2.2u 50V ASX
C3139 2.2u 50V ASX
R3131 0
IC3104
UPD4721G
C3133 2.2u 50V ASX
C3134 2.2u 50V ASX
C3135 2.2u 50V ASX
R3128 0
R3130 0
R3133 100 1/10W
R3135 100 1/10W
FB3106 0060TA
FB3108 0060TA
R3136 0
D3104 MA3120WA
D3105 MA3120WA
SC3103
NO437FJ
P3101
NA339WJ
DU TO CPU
1 3.3VBS
2 TXD
3 RXD
4 GND
5 GND

TO_AV4
+13V
TO_AV2
+3.3V(D1)
BU+5V
+5V
+9V
BS_RST
CLS_SW
TO_AV4
BU+5V
+5V
+9V
+8V
TO_AV5
+3.3V(D1)

+3.3V(D)
BU+5V
D_POW

SC5701
NO491FJ
TO MAIN
1 GND
2 Y/VOUT2
3 GND
4 C/COMP2_Cb
5 GND
6 COMP2_Cr
7 GND
8 COMP1_Cr
9 GND
10 C/COMP1_Cb
11 GND
12 Y/VOUT1
13 GND
14 DVI_SR
15 GND
16 DVI_SG
17 GND
18 DVI_SB
19 GND
20 HDMI_H
21 GND
22 HDMI_V
23 GND
24 HDMI_Pr
25 GND
26 HDMI_Y
27 GND
28 HDMI_Pb
29 GND
30 DVI_H
31 DVI_V
32 GND
33 MFIL_SEL

SC5702
NO464FJ
TO MAIN
HDMI_INT 1
HDMI_HPOW 2
SDA_B_2 3
SCL_B_2 4
GND 5
+3.3V(D) 6
DVI_SCDT 7
DVI_HPOW 8
GND 9
+9V(B) 10
VCI_RST 11
GND 12
AFT_1 13
AFT_2 14
AGC_1 15
AGC_2 16
GND 17
TXD1 18
RXD1 19
SDA_B 20
SCL_B 21
SDA_A 22
SCL_A 23
GND 24
MON_DOWN 25
LMUTE 26
GND 27
HDMI_RST_1 28
BS_RST 29
GND 30
TV_COL1 31
TV_COL2 32
GND 33
SSYSTEM 34
MSP_RST5 35
GND 36
SDA_INT 37
SP_PLUG 38
C1_PLUG 39
GND 40
CSEN2 41
TEXT_EN 42
AVPWB 43
GND 44
I2C_SDA5 45
I2C_SCL5 46
FAN_CONT 47
I2CEXT 48
D_POW 49
GND 50

TO_AV6
+5V
BU+5V
+3.3V(D)
SDA_B
SCL_B
DVI_SCDT
DVI_SR
DVI_SG
DVI_SB
DVI_H
DVI_V
DVI_HPOW
VCI_RST
HDMI_RST_1
TO_AV7
HDMI_Pr
HDMI_Y
HDMI_Pb
HDMI_H
HDMI_V
HDMI_INT
TO_AV1
AFT1
AFT2
AGC1
AGC2
C1_PLUG
TO_AV2
SDA_B
SCL_B
SDA_A
SCL_A
MON_DOWN
SDA_B_2
SCL_B_2
TV_COL1
TO_AV4
L_MUTE
MSP_RST5
TO_AV5
SDA_INT
TO_AV2
AVPWB
I2C_SDA5
I2C_SCL5
I2CEXT
TO_AV1
Y/VOUT1
C/COMP1_Cb
COMP1_Cr
Y/VOUT2
C/COMP2_Cb
COMP2_Cr
TO_AV1
MFIL_SEL

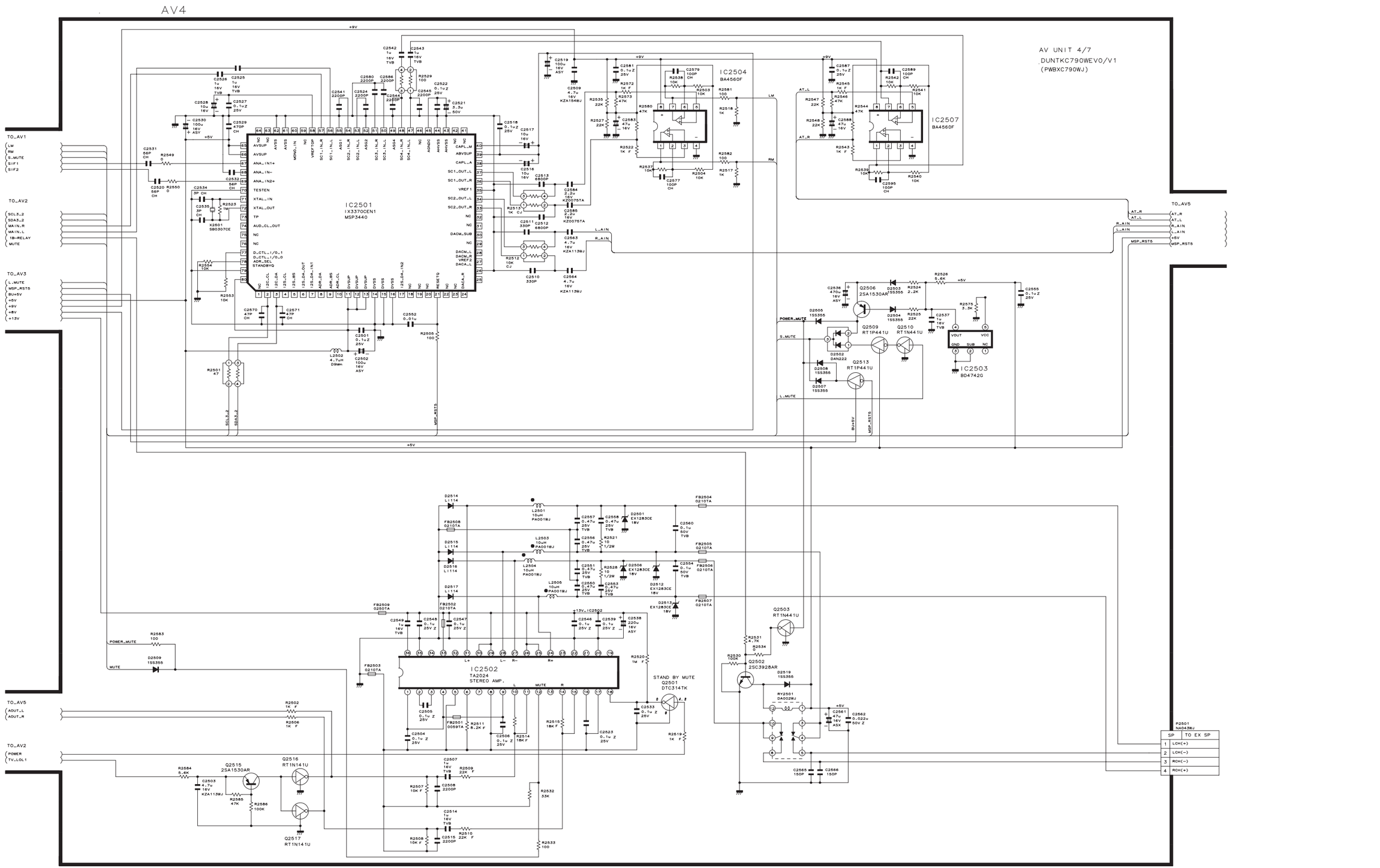
R5706 22K
R5705 22K

S5701
K0096CE
S5702
K0096CE
R5726 0
C5729 0.1u Z 25V
D5701 EX1400CE (10V)
R5727 0
C5730 0.1u Z 25V
D5702 EX1400CE (10V)
BS_RST
CLS_SW

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

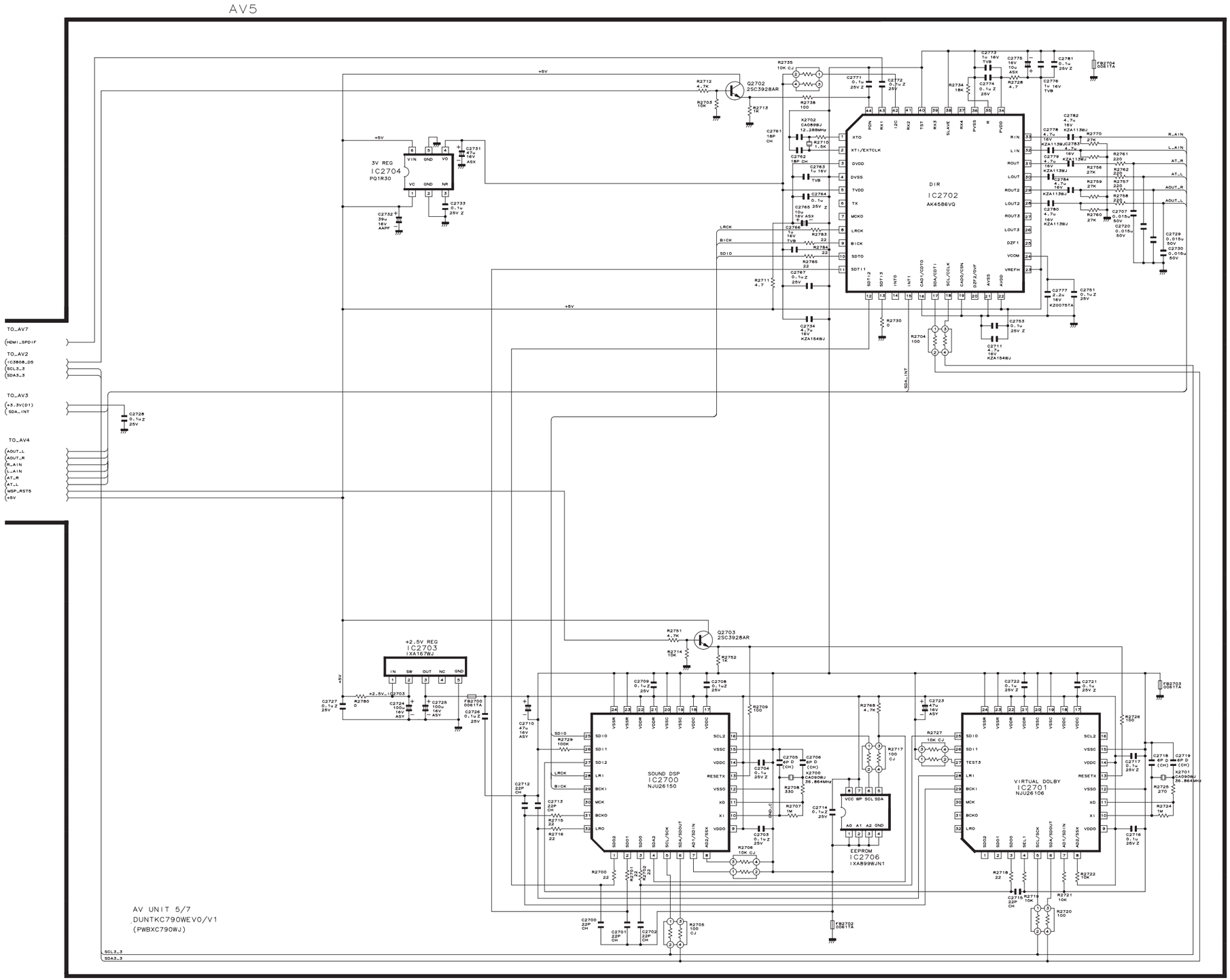
D7 D8

■AV Unit-4/7

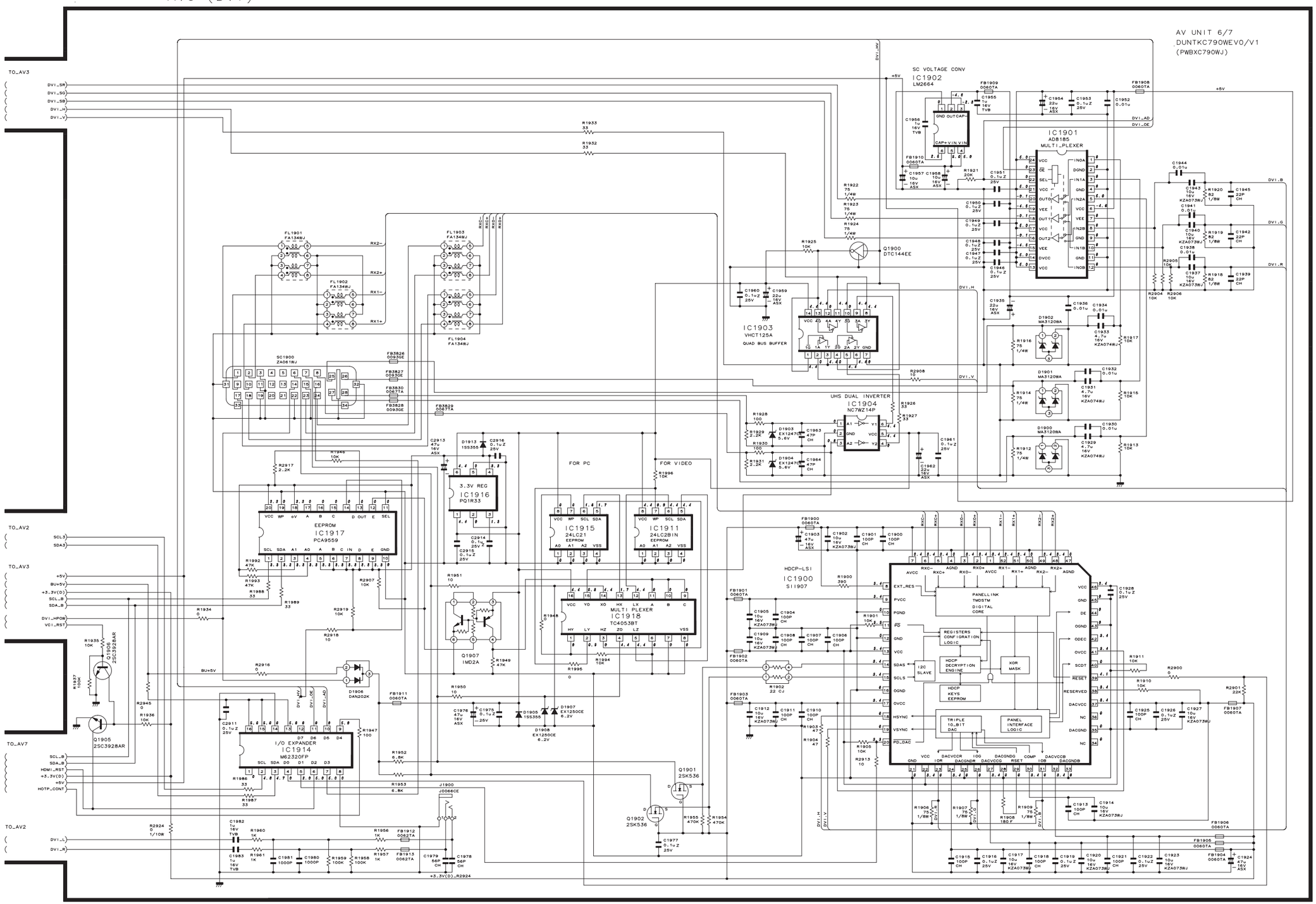


D9 D10

■AV Unit-5/7


AV5
TO_AV7
HDMI_SPDIF
TO_AV2
IIC3608_05
SCL3_3
SDA3_3
TO_AV3
+3.3V(D1)
SDA_INT
TO_AV4
AOUT_L
AOUT_R
R_AIN
L_AIN
AT_R
AT_L
MSP_RST5
+5V
3V REG
IC2704
PQ1R30
+2.5V REG
IC2703
IXA167WJ
Q2702
2SC3928AR
Q2703
2SC3928AR
X2702
CA089WJ
12.288MHz
DIR
IC2702
AK4586VQ
SOUND DSP
IC2700
NJU26150
VIRTUAL DOLBY
IC2701
NJU26106
EEPROM
IC2706
IXA899WJN1
LRCK
BICK
SDIO
SCL3_3
SDA3_3
AV UNIT 5/7
DUNTKC790WEV0/V1
(PWBXC790WJ)
D11
D12

■AV Unit-6/7



D13 D14

■AV Unit-7/7

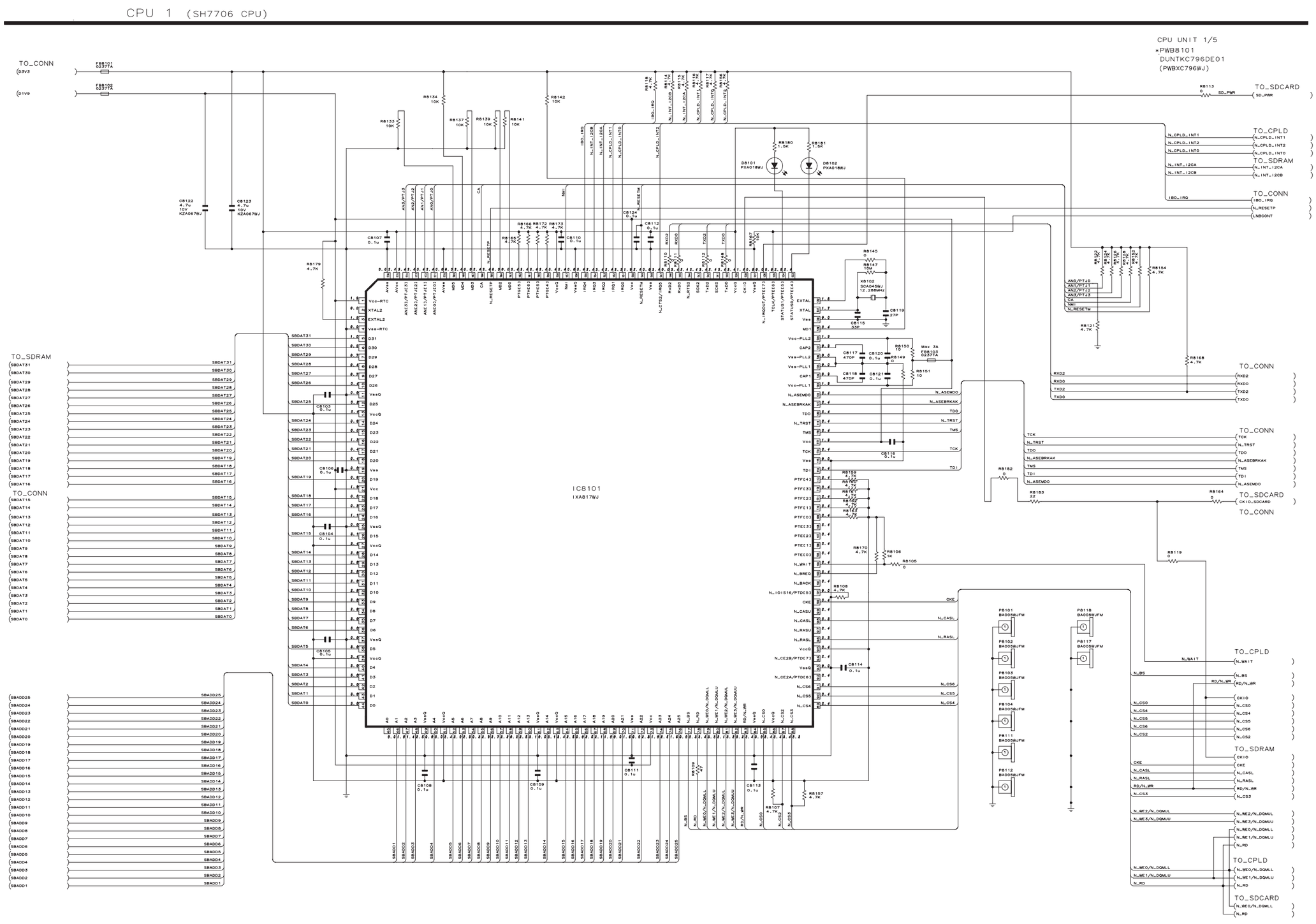
AV7 (HDMI)

AV UNIT 7/7
DUNTKC790WEV0/V1
(PWBXC790WJ)

+5V
D1909 DAN202K
FB1914 0060TA
C1998 47u 16V ASX
C1999 0.1uZ 25V
D1910 1SS355
R1973 47K
R1972 47K
R1975 10
R1974 10
IC1913 24LC2BIN EEPROM
VCC WP SCL SDA
A0 A1 A2 VSS
Q1903 2SK536
Q1904 2SK536
R1978 470K
R1979 470K
FB1915 0060TA
FB1916 0060TA
SC1901 ZA072WJ
R2938 1K
C2901 22u 16V ASX
C2900 0.1uZ 25V
+3.3VFB1915
+3.3VFB1916
C1994 1u 10V
C1993 0.01u
C2902 100u 6.3V AAPE
R1971 390 F
R1998 22K
R1999 22K
R1981 0
R1968 4.7K
C1992 0.01u
+3.3VFB1920
+3.3VFB1919
IC1912
SII9993
C1991 0.01u
C1990 0.01u
C1995 0.01u
C1996 0.01u
C1997 0.01u
H_RXC−
H_RXC+
H_RX0−
H_RX0+
H_RX1−
H_RX1+
H_RX2−
H_RX2+
R1967 33
R1965 33
R1966 33
TL1959
FB1921 1043CE
R2942 1.5K
R1962 100 F
C1984 0.01u
C1985 10u 16V ASX
C1986 0.01u
C1987 0.01u
R1963 4.7K
R1964 3.9K
C1989 10u 16V KZA073WJ
C1988 0.047u 25V
C2912 33u 10V AAPE
FB1917 0060TA
FB1918 0060TA
FB1919 0060TA
FB1920 0210TA
+3.3VFB1917
+3.3VFB1918
+3.3VFB1919
+3.3VFB1920
+3.3V(D)
C2910 22u 16V ASX
C2909 0.1uZ 25V
C2908 220u 6.3V AAPE
C2907 0.1uZ 25V
C2906 0.1uZ 25V
C2905 0.01u
C2904 22u 16V ASX
C2903 0.1uZ 25V
R2949 0
R2950 0
R2951 0
R2939 75
R2940 75
R2941 75
TO_AV6
(+3.3V(D))
(+5V)
TO_AV3
(HDMI_INT)
(HDMI_Pr)
(HDMI_Y)
(HDMI_Pb)
(HDMI_H)
(HDMI_V)
TO_AV5
(HDMI_SPDIF)
TO_AV6
(HDMI_RST)
(SCL_B)
(SDA_B)
(HOTP_CONT)

D15 D16

■CPU Unit-1/5

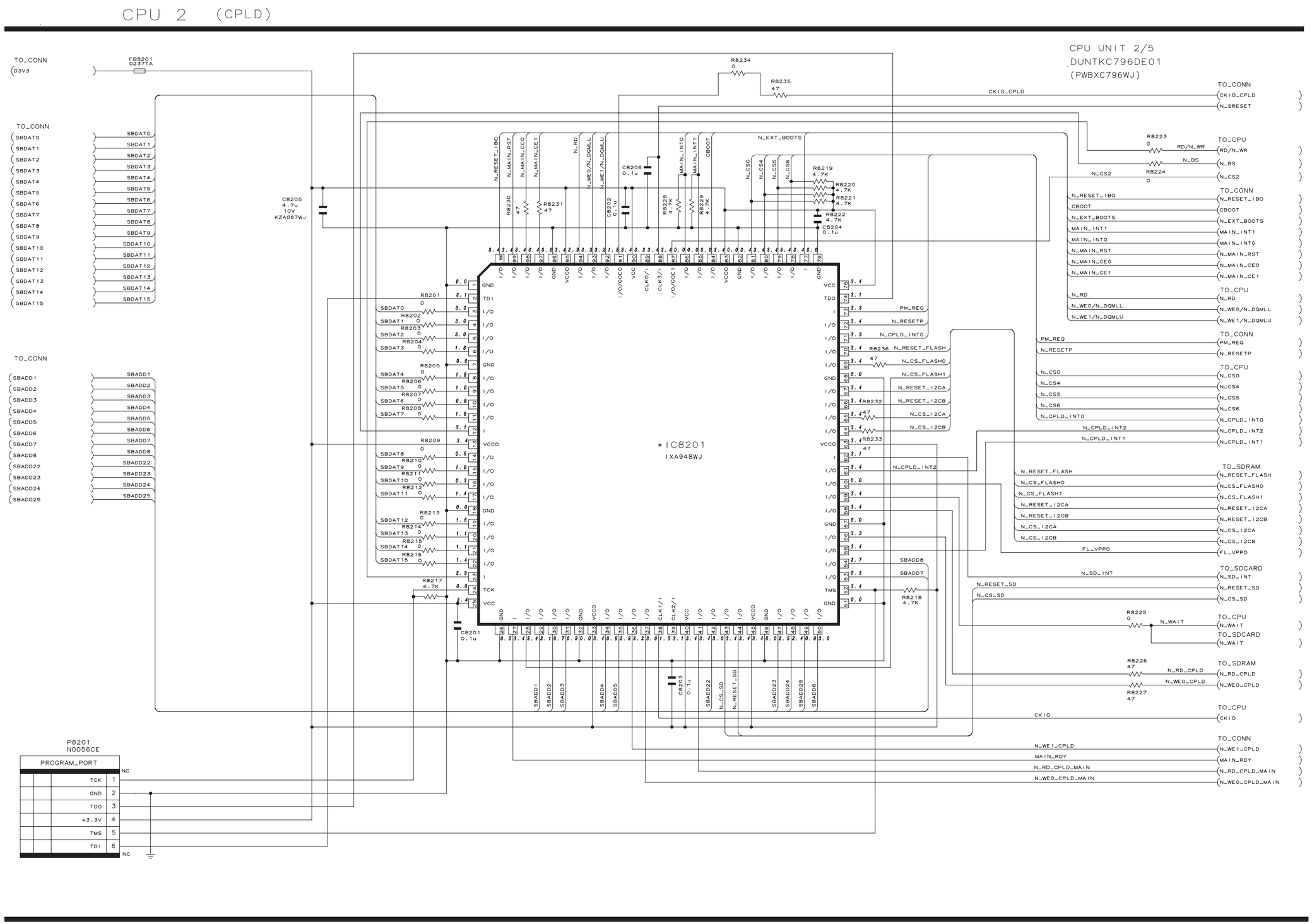


H G F E D C B A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

D17 D18

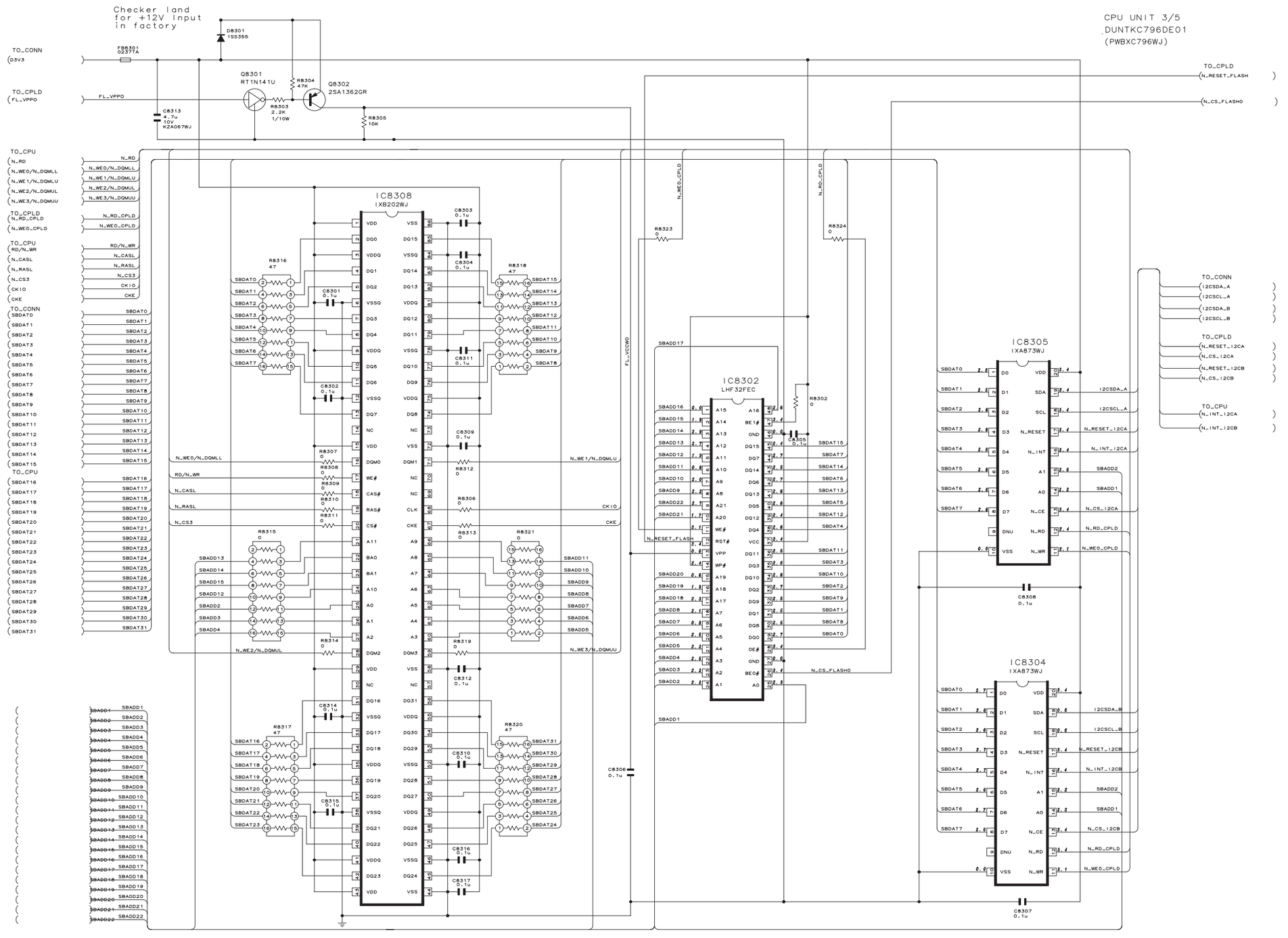
■CPU Unit-2/5



D19 D20

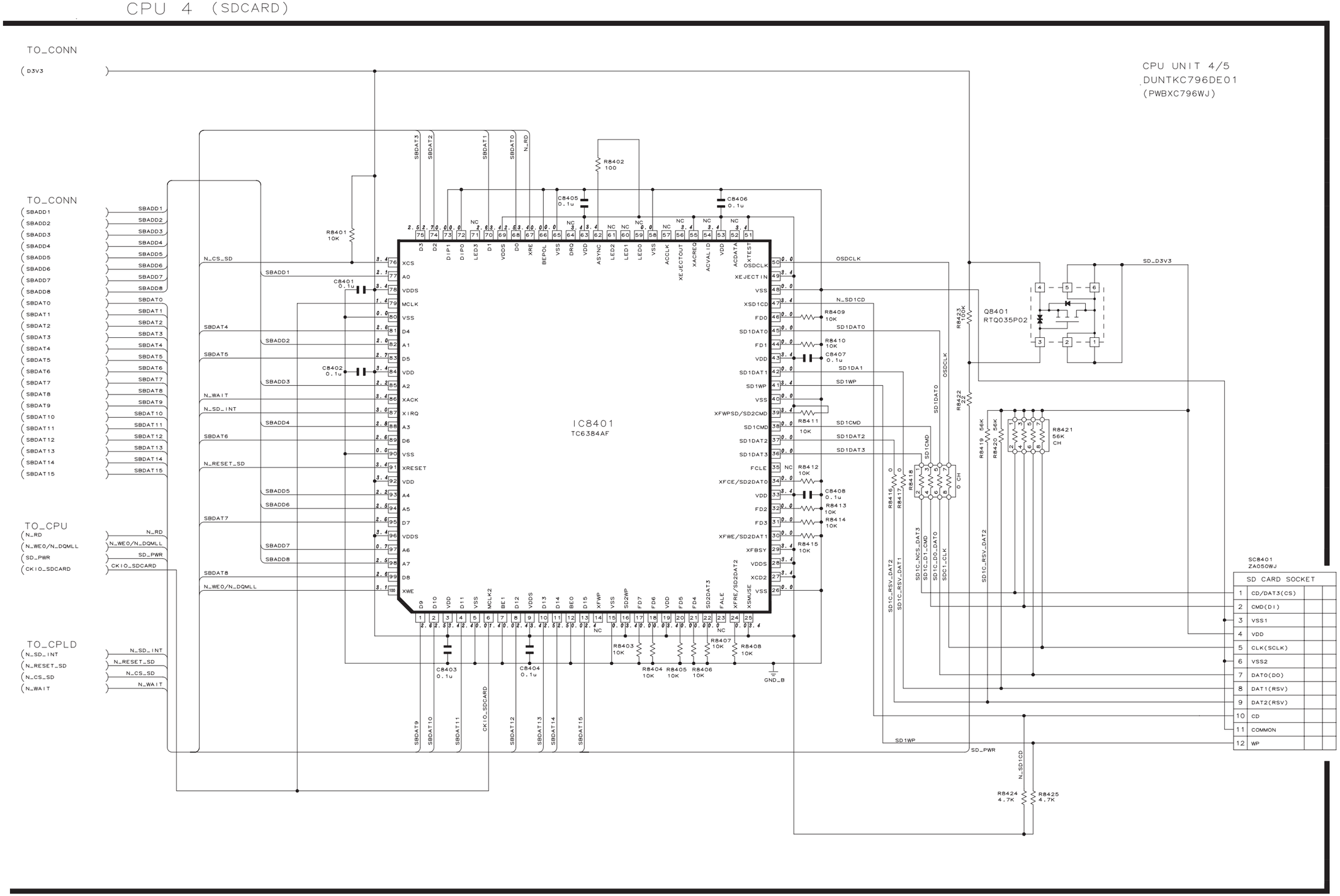
■CPU Unit-3/5

CPU 3 (FLASH/SDRAM/BUStoI2C)



D21 D22

■CPU Unit-4/5



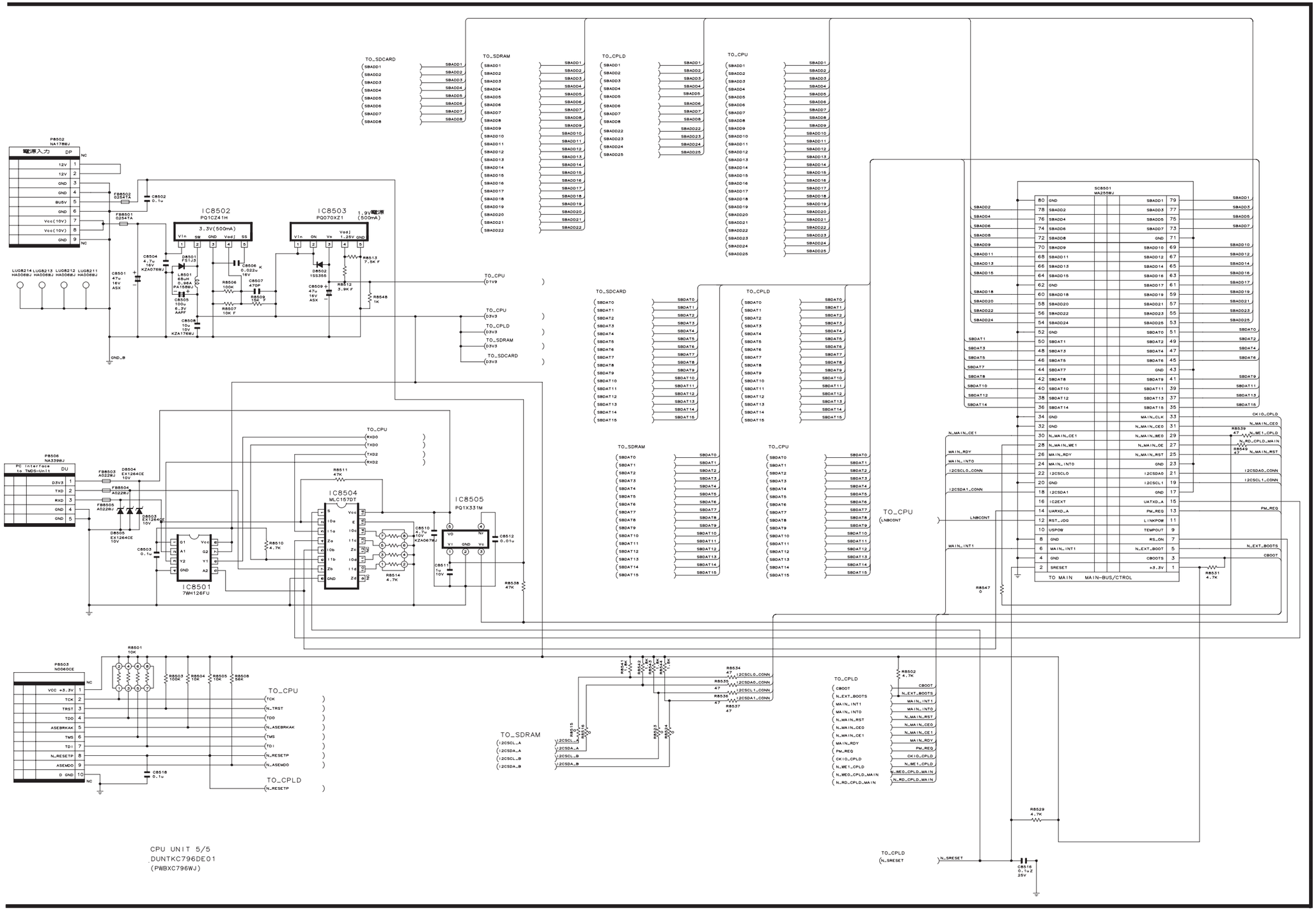
H G F E D C B A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

D23 D24

■CPU Unit-5/5

CPU 5 (CONN)

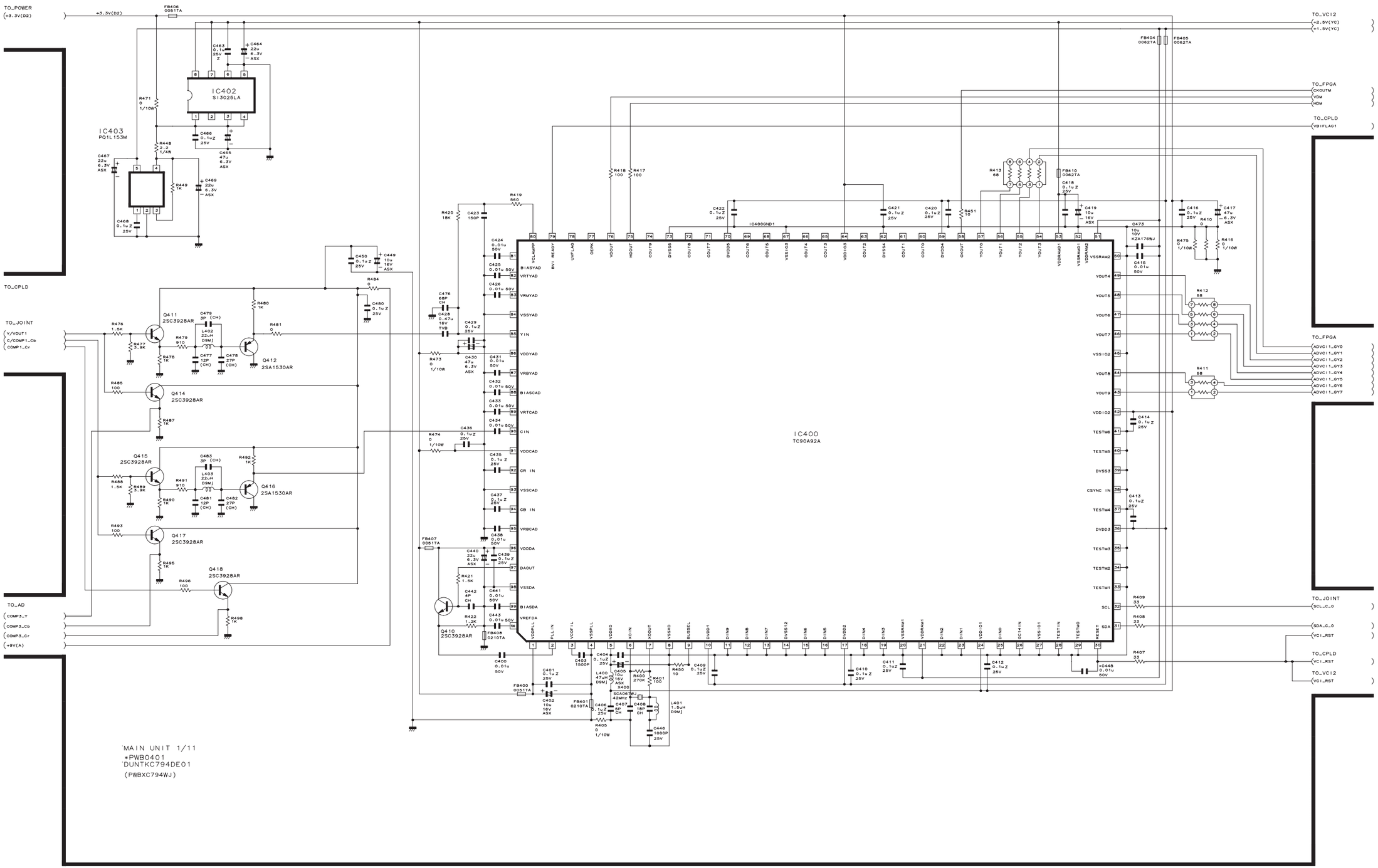


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

D25 D26

■MAIN Unit-1/11

MAIN1(VCI1)



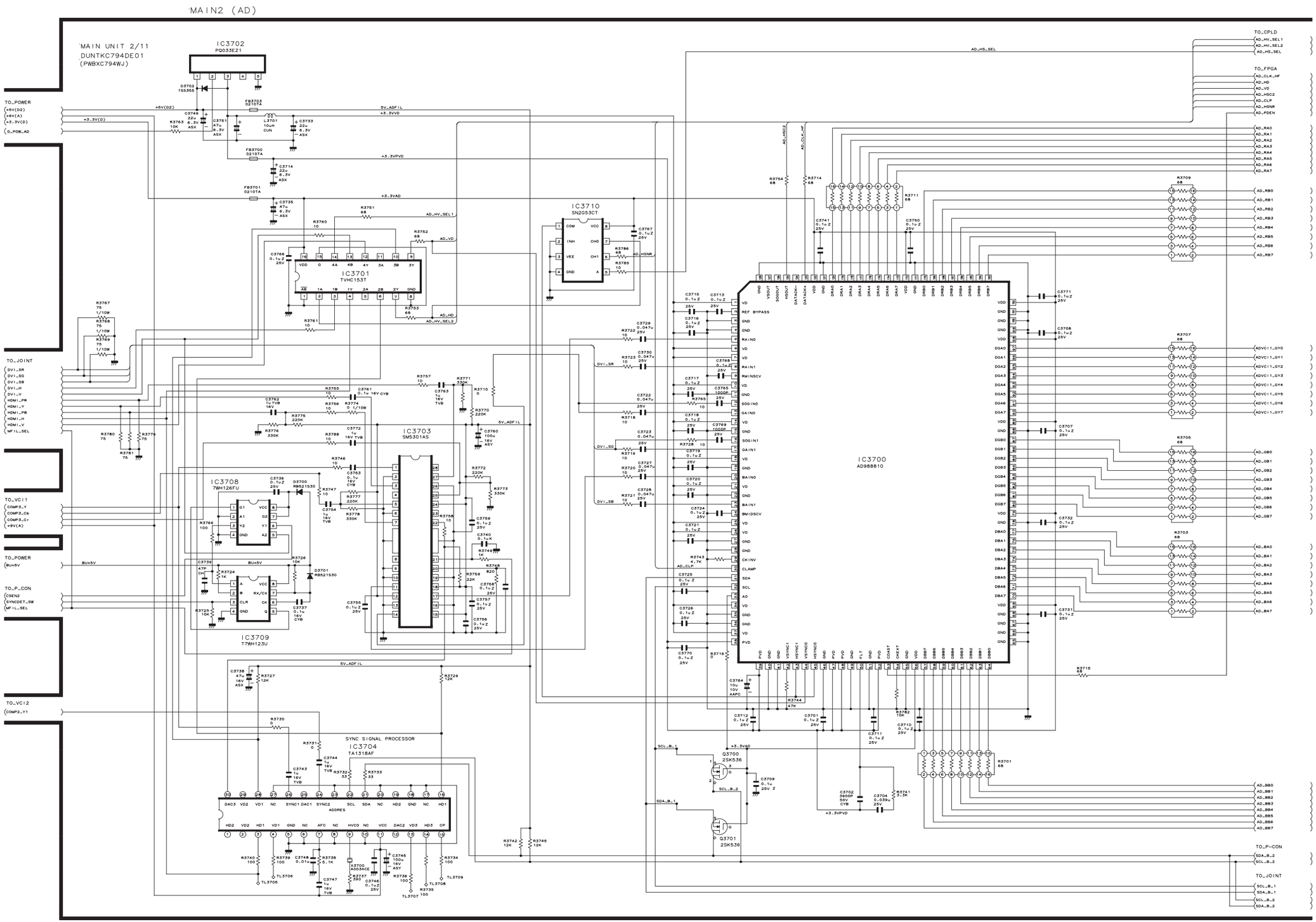
MAIN UNIT 1/11
*PWB0401
DUNTKC794DE01
(PWBXC794WJ)

H G F E D C B A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

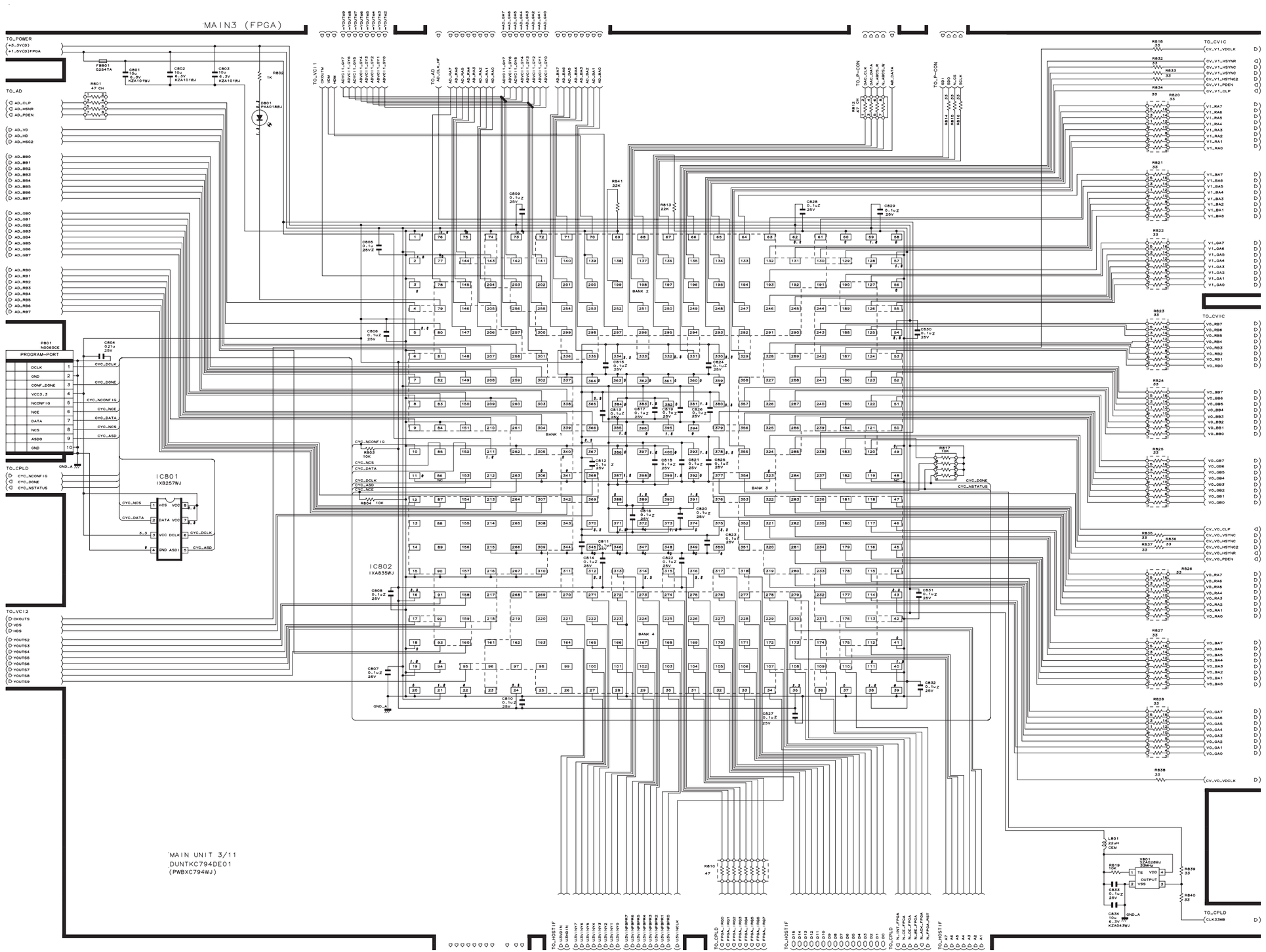
D27 D28

■MAIN Unit-2/11



D29 D30

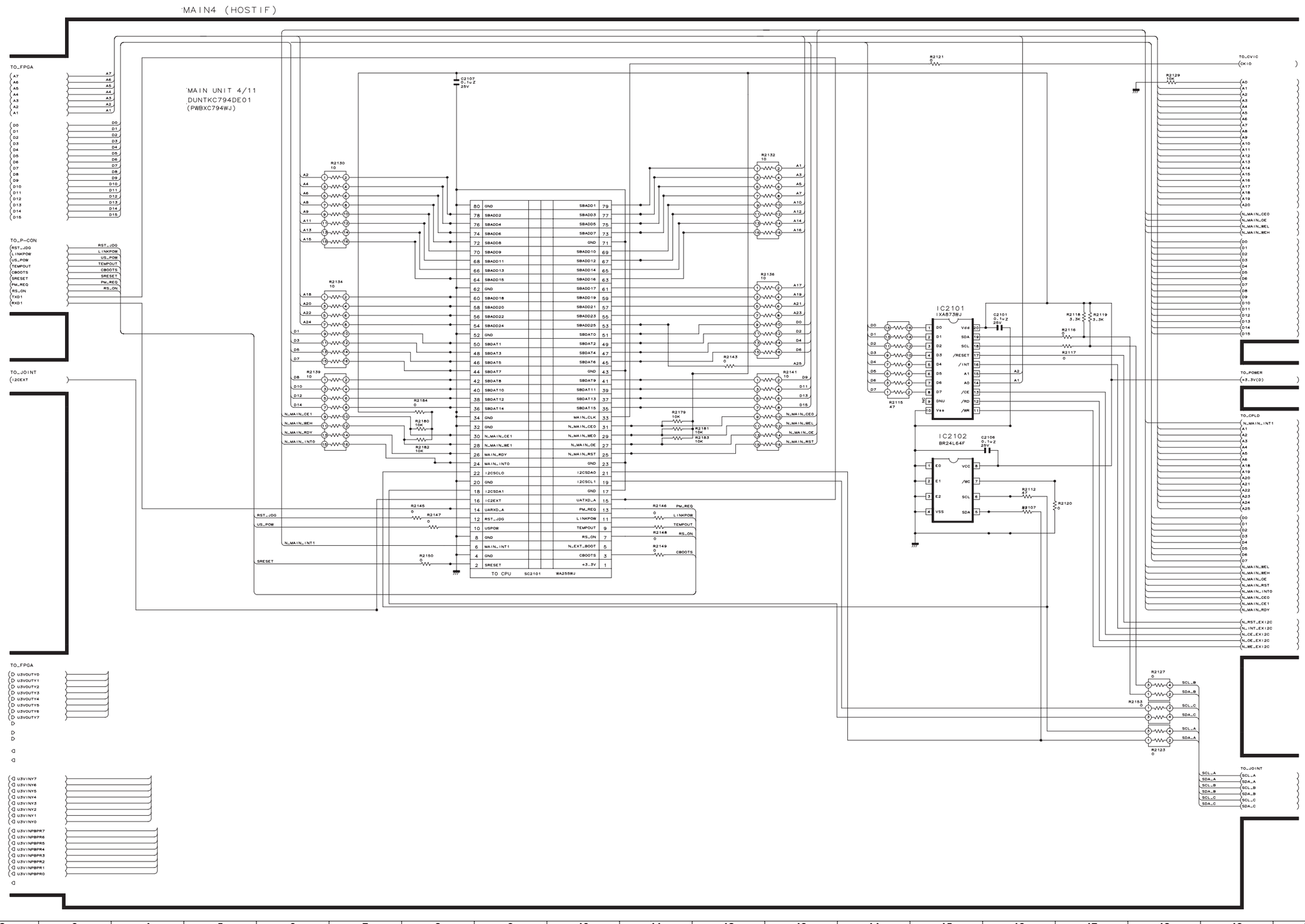
■MAIN Unit-3/11



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

D31 D32

■MAIN Unit-4/11



D33

D34

■MAIN Unit-5/11

MAIN5 (CPLD)

MAIN UNIT 5/11
DUNTKC794DE01
(PWBXC794WJ)

P1001
N0056CE
PROGRAM_PORT
TCK 1
GND 2
TDO 3
+3.3V 4
TMS 5
TDI 6

R1010 4.7K
PLD_TCK
PLD_TDOCHAIN
PLD_TDI

TO_LVDS TX
N_RST_PL

TO_FPGA
CLK33MB
CYC_NCONFIG
CYC_DONE
CYC_NSTATUS
N_CE_FPGA
N_INT_FPGA
N_OE_FPGA
N_WE_FPGA
N_ACK_FPGA

TO_HOSTIF
N_RST_EX12C
N_INT_EX12C
N_WE_EX12C
N_OE_EX12C
N_CE_EX12C
N_MAIN_INT1
N_MAIN_CE0
N_MAIN_CE1
N_MAIN_OE
N_MAIN_WEL
N_MAIN_WEH
N_MAIN_INT0
N_MAIN_RDY
N_MAIN_RST
D0 D1 D2 D3 D4 D5 D6 D7
A1 A2 A3 A4 A5 A6 A18 A19 A20 A21 A22 A23 A24 A25

TO_JOINT
1BIT_PROTECT
C1_PLUG
DVI_HPLG
DVI_SCDT
HDMI_HPOW
HDMI_INT

SENCE_3V
HDMI_RST_1
VC1_RST
Y/COMP1
VBIFLAG1
VBIFLAG2
AD_HS_SEL
AD_HV_SEL1
AD_HV_SEL2
FLASH_W
SRST
ACL_SW
MSP_RST
TV_COL1
TV_COL2
HOTPLG
HP_MUTE
L_MUTE
DAC_RESET
SMPOWHOLD
CSEN1_A
TEMP_PSEL_SW
CIVIC_SEL
FAN_CONT
MONI_DOWN

R1008 0
R1014 0
R1011 47
R1015 47
R1025 0
R1079 100
R1078 10K
R1003 10K
C1004 0.1u Z 25V
C1006 0.1u Z 25V
C1008 0.1u Z 25V
PLD_TDOCHAIN

IC1001
IXA869WJN1
Vcc IO
I/O/GST4
I/O/GST1
I/O/GST2
VccINT
I/O/GCK1
I/O/GCK2
I/O/GCK3
GND
TDI
TMS
TCK

R1002 10K
R1001 10K
R1004 47
C1002 0.1u Z 25V
R1075 0
R1049 47
R1016 47
R1077 47
R1005 47
R1006 47
R1007 47
R1012 0
R1009 0
R1013 0
R1073 47
C1005 0.1u Z 25V
C1007 0.1u Z 25V
C1009 0.1u Z 25V
R1021 0
C1011 0.1u Z 25V
C1012 0.1u Z 25V
R1082 0
R1028 10K
R1034 10K
R1019 0
R1018 0
R1029 47
R1030 47
R1031 47
R1032 47
R1033 47
R1020 0
R1026 47

TO_POWER
+3.3V(D)
ADPOW
VC1POW

TO_VC11
VC1_RST
VBIFLAG1
Y/COMP1

TO_VC12
Y/COMP2
VBIFLAG2

TO_AD
AD_HS_SEL
AD_HV_SEL1
AD_HV_SEL2

TO_P-CON
FLASH_W
SRST
HOTPLG
ACL_SW
MSP_RST
TV_COL1
TV_COL2
HP_MUTE
L_MUTE
DAC_RESET
SMPOWHOLD
CSEN1_A
TEMP_PSEL_SW
CIVIC_SEL
SENCE_3V

TO_JOINT
HDMI_RST_1
FAN_CONT
MONI_DOWN

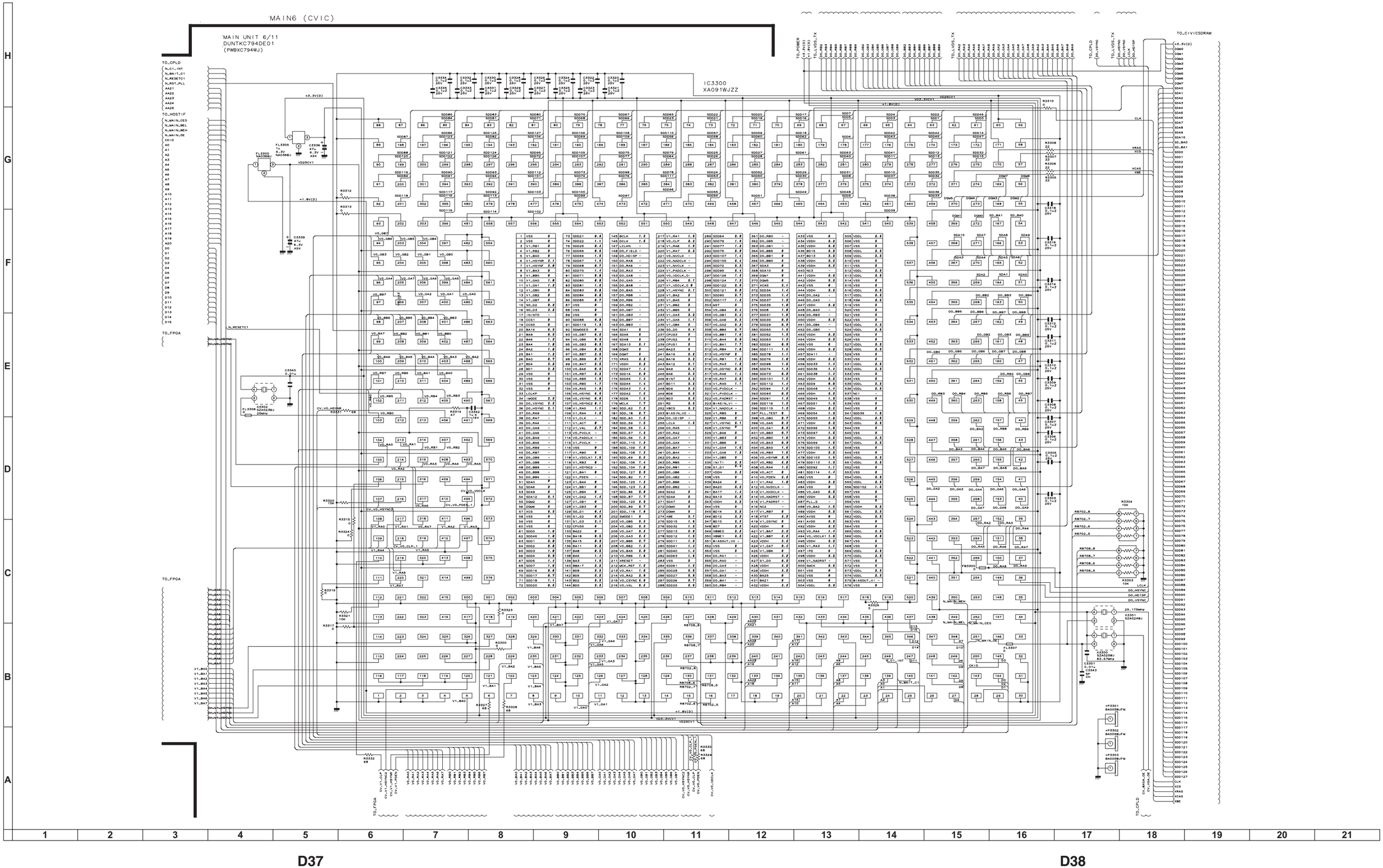
TO_FPGA
FPGA_IRQ0
FPGA_IRQ1
FPGA_IRQ2
FPGA_IRQ3
FPGA_IRQ4
FPGA_IRQ5
FPGA_IRQ6
FPGA_IRQ7
N_FPGA_RST

TO_CV1C
DD_VSYNC
CV_VGA_OE
CV_WXGA_OE
N_RESETC1
N_RST_PLL
N_WAIT_C1
N_C1_INT
AA21 AA22 AA23 AA24 AA25
AA21～AA25はバス。まとめてGND_Bでシールド。

TO_JOINT
4586_INT
SP_PLUG

D35 D36

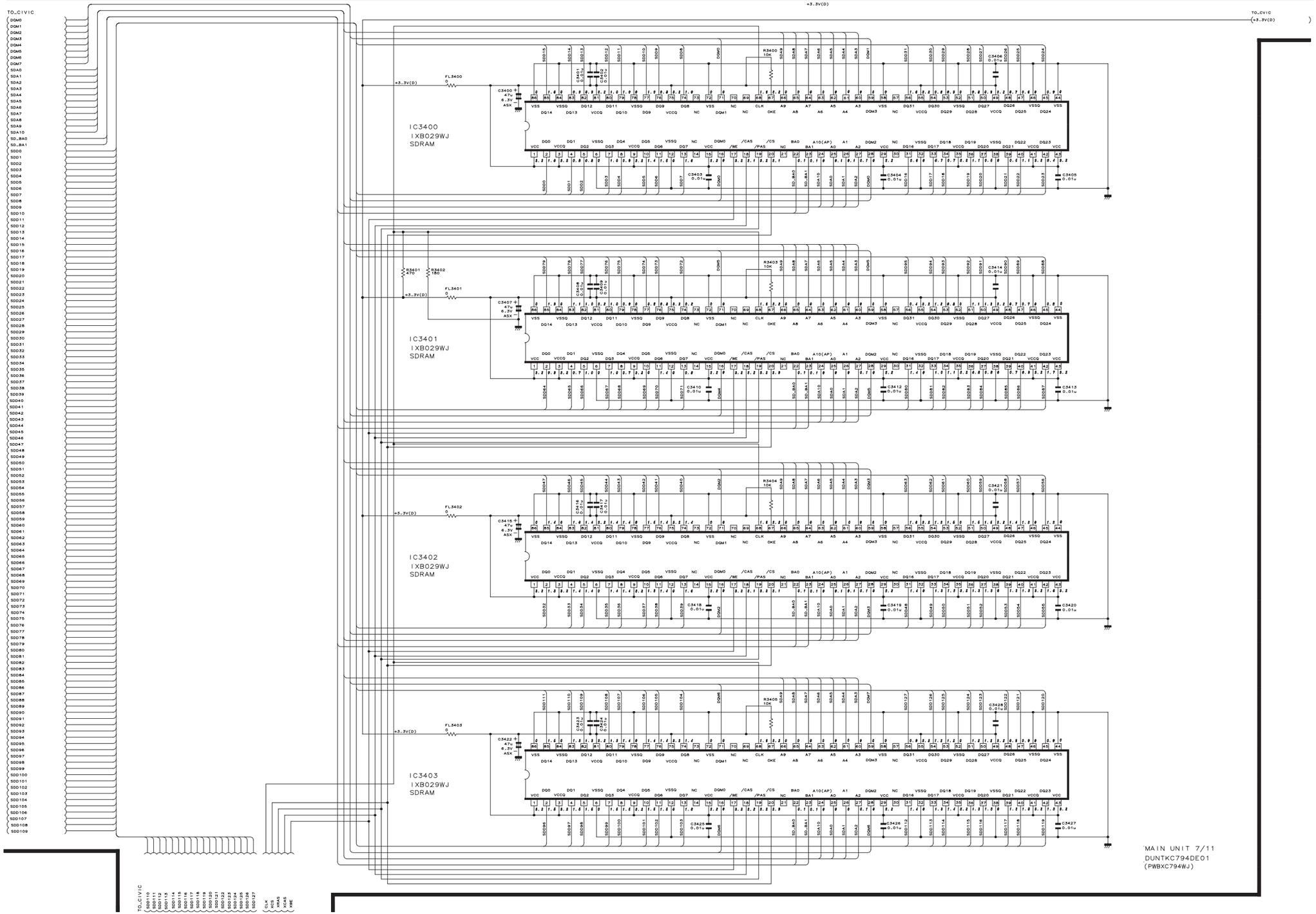
■MAIN Unit-6/11



D37 D38

■MAIN Unit-7/11

MAIN7 (CIVICSDRAM)



H G F E D C B A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

D39 D40

■MAIN Unit-8/11

MAIN8 (LVDS TX)

MAIN UNIT 8/11
DUNTKC794DE01
(PWBXC794WJ)

TO_POWER
+3.3V(D)
+5V(D1)

TO_CIVIC
DO_RA2
DO_RA3
DO_RA4
DO_RA5
DO_RA6
DO_RA7
DO_RA8
DO_RA9

R3201 33
RE0 RE1 RE2 RE3 RE4 RE5 RE6 RE7

R3203 33
DO_GA2 DO_GA3 DO_GA4 DO_GA5 DO_GA6 DO_GA7 DO_GA8 DO_GA9
GE0 GE1 GE2 GE3 GE4 GE5 GE6 GE7

R3205 33
DO_BA2 DO_BA3 DO_BA4 DO_BA5 DO_BA6 DO_BA7 DO_BA8 DO_BA9
BE0 BE1 BE2 BE3 BE4 BE5 BE6 BE7

R3207 33
DO_RB2 DO_RB3 DO_RB4 DO_RB5 DO_RB6 DO_RB7 DO_RB8 DO_RB9
RO0 RO1 RO2 RO3 RO4 RO5 RO6 RO7

R3209 33
DO_GB2 DO_GB3 DO_GB4 DO_GB5 DO_GB6 DO_GB7 DO_GB8 DO_GB9
GO0 GO1 GO2 GO3 GO4 GO5 GO6 GO7

R3211 33
DO_BB2 DO_BB3 DO_BB4 DO_BB5 DO_BB6 DO_BB7 DO_BB8 DO_BB9
BO0 BO1 BO2 BO3 BO4 BO5 BO6 BO7

TO_CPLD
N_RST_PL
TO_CIVIC
DO_HSYNC
DO_VSYNC
DO_HD1SP
LCLK

R3213 33 TZ0073CE
R3220 10

C3209 0.01u K 50V
C3210 0.1u Z 25V

IC3201
TLVD823

C3208 0.01u K 50V

D3201 1SS355
+5V(D1)

IC3202
PQ1R33

C3201 33u 10V ASX
C3202 33u 10V ASX
C3203 0.1u Z 25V
C3204 33u 10V ASX
C3205 0.1u Z 25V
C3206 0.1u Z 25V
C3207 0.01u K 50V
FB3202 0660TA

R3215 47K
R3214 47K
R3216 47K
R3217 47K

FB3204 0660TA
C3211 0.1u Z 25V
C3213 0.1u Z 25V
C3214 0.01u K 50V

C3212 0.01u K 50V
C3215 0.01u K 50V
C3216 0.1u 25V Z
FB3205 0660TA
C3217 0.1u Z 25V

SC3200
N0491FJ
LV TO TMDS
1 GND
2 GND
3 TA1−
4 TA1+
5 GND
6 TB1−
7 TB1+
8 GND
9 TC1−
10 TC1+
11 GND
12 TCLK1−
13 TCLK1+
14 GND
15 TD1−
16 TD1+
17 GND
18 TA2−
19 TA2+
20 GND
21 TB2−
22 TB2+
23 GND
24 TC2−
25 TC2+
26 GND
27 TCLK2−
28 TCLK2+
29 GND
30 TD2−
31 TD2+
32 GND
33 GND

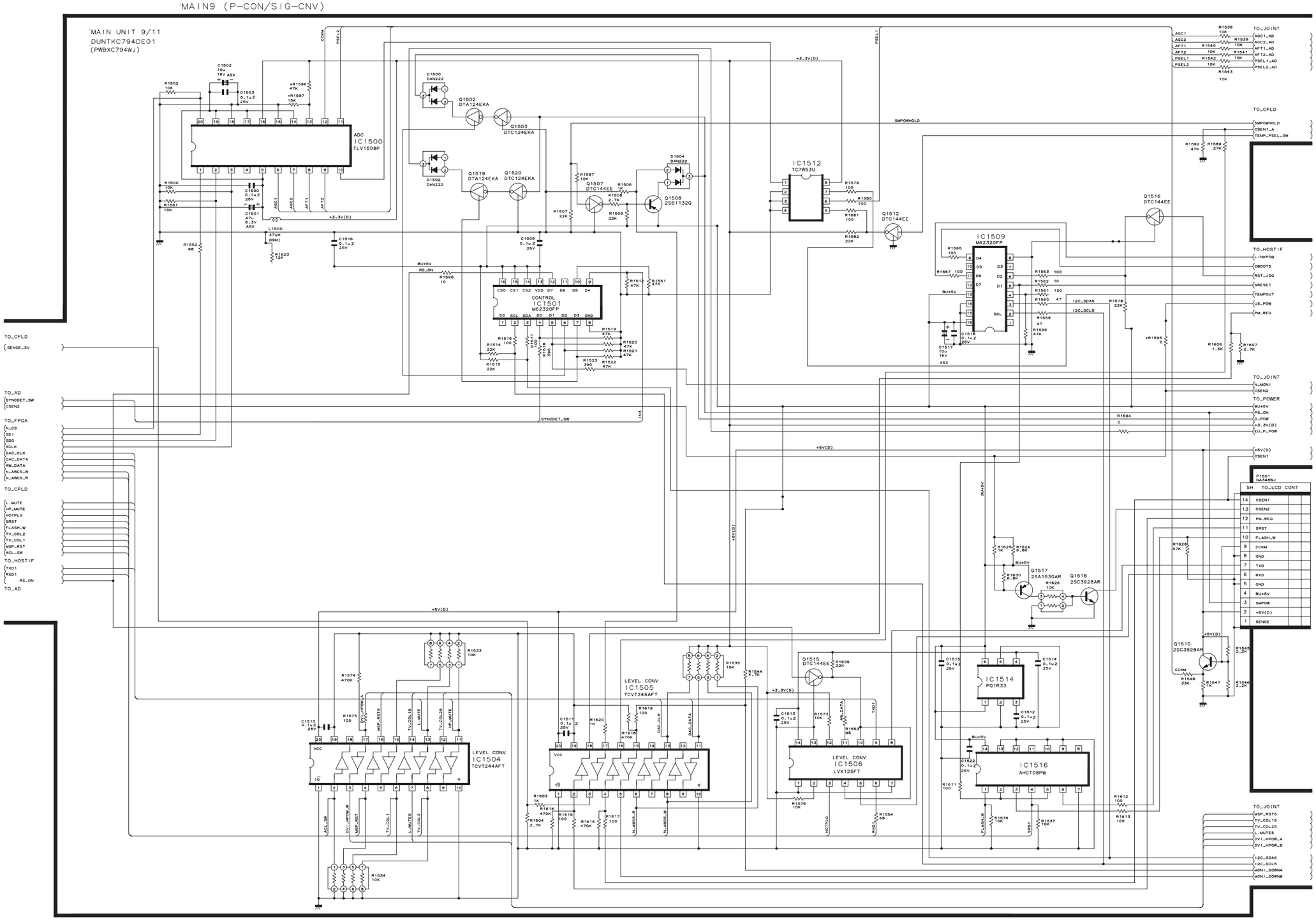
FL3200 FA071WJ
FL3201 FA071WJ
FL3202 FA071WJ
FL3203 FA071WJ
FL3204 FA071WJ
FL3205 FA071WJ
FL3206 FA071WJ
FL3207 FA071WJ
FL3208 FA071WJ
FL3209 FA071WJ

D41

D42

■MAIN Unit-9/11

MAIN9 (P-CON/SIG-CNV)



D43

D44

■MAIN Unit-10/11

MAIN10 (POWER)

P1803 NA179WJ
PE
UR+10V 1
GND 2
GND 3
OVP 4
UR+6V 5
UR+6V 6
GND 7
GND 8
+3.3V(D) 9
+3.3V(D) 10

P1804 NA175WJ
PD
PS_ON 1
D_POW 2
EU_P_POW 3
AC_DET 4
GND 5
BU+5V 6

P1802 NA179WJ
TO_AV SUB POWER PB
+5V(D1) 1
D_GND 2
+1.8V(D) 3
+1.8V(D) 4
F_GND 5
D.GND 6
MONI_DOWN 7
SDA5 8
GND 9
SCL5 10

C1823 1000P
C1826 100u 16V ASY
C1824 1000P
C1825 1000P

UR+10V
UR+6V
+3.3V(D)
BU+5V

TO_JOINT
(+3.3V(D)
(D_POW
(ADPOW
(I2C_SCL5
(I2C_SDA5
(MONI_DOWNA
(+5V(D)
TO_VCI1
(+5V(D)
(+3.3V(D2)
TO_VCI2
(+5V(D)
(+3.3V(D2)
TO_AD
(+5V(D2)
(BU+5V
(+9V(A)
(+3.3V(D)
(D_POW_AD
TO_CVIC
(+3.3V(D)
(+1.8V(D)
TO_P-CON
(CSEN1
(+3.3V(D)
(+5V(D)
(D_POW
(PS_ON
(EU_P_POW
(BU+5V
TO_LVDS_TX
(+5V(D1)
(+3.3V(D)
TO_CPLD
(+3.3V(D)
(ADPOW
TO_HOSTIF
(+3.3V(D)
TO_FPGA
(+3.3V(D)
(+1.5V(D)FPGA

R1827 0
C1827 0.1uZ 25V
R1819 22K
R1820 12K
R1822 4.7K
IC1805 BD4729G
VOUT VCC SUBGND GND NC RESET
BU+5V
UR+10V
D_POW_AD
Q1802 DTC124EKA
R1817 10K
R1818 1K
Q1801 2SA1530AR
D_POW
+3.3V(D)

IC1801 PQ20WZ11 +5V(D2)-REG
VIN CTL VOUT ADJ GND
C1802 22u 35V ASX
C1803 100u 16V ASY
C1801 0.1u Z 25V
R1801 10K
C1804 0.1uZ 25V
R1802 1.2K F
R1803 82 F
R1804 1K F
C1805 1000P
+5V(D2)

IC1802 PQ20WZ11 +3.3V(D2)-REG
VIN CTL VOUT ADJ GND
C1807 22u 35V ASX
C1808 100u 16V ASY
C1806 0.1u Z 25V
R1805 10K
C1809 0.1uZ 25V
R1806 2K F
R1807 0
R1808 510 F
C1810 1000P
+5V(D)
+3.3V(D2)

IC1803 PQ070XH2 +5V(D)-REG
VIN CTL VOUT ADJ GND
C1812 22u 35V ASX
C1813 100u 16V ASY
C1811 0.1u Z 25V
R1809 10K
C1814 0.1uZ 25V
R1810 1K F
R1811 0
R1812 3K F
C1815 1000P
+5V(D)

IC1804 PQ20WZ11 9V(A)-REG
VIN CTL VOUT ADJ GND
C1817 100u 16V ASY
C1818 100u 16V ASY
C1816 0.1u Z 25V
R1813 10K
C1819 0.1uZ 25V
R1814 1K F
R1815 220 F
R1816 2.2K F
C1820 1000P
+9V(A)

IC1806 PQ015EZ1 +1.5V(D)FPGA-REG
VCC CTL OUT NC GND
C1828 0.1u Z 25V
C1829 100u 16V ASY
R1821 10K
C1830 0.1u Z 25V
+1.5V(D)FPGA

MAIN UNIT 10/11
DUNTKC794DE01
(PWBXC794WJ)

H G F E D C B A
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

D45 D46

■MAIN Unit-11/11

MAIN11 (JOINT)

LUG7213 HA009WJ
LUG7214 HA009WJ
LUG7215 HA009WJ
LUG7216 HA009WJ
LUG7217 HA009WJ
LUG7218 HA009WJ
×LUG7219 ZA003WJ

LUG7201 HA009WJ
LUG7208 HA009WJ
LUG7209 HA009WJ
LUG7210 HA009WJ
LUG7211 HA009WJ
LUG7212 HA009WJ
×LUG7220 ZA003WJ

TO_HOSTIF
(I2CEXT

TO_CPLD
(FAN_CONT

TO_P-CON
(I2C_SCL5
(I2C_SDA5

TO_POW
(I2C_SCL5
(I2C_SDA5
(MONI_DOWNA

R7244 0
R7246 0
SCL_B
SDA_B
SCL_C
SDA_C
R7266 0
R7267 0

Q7207 DTC144EE
R7291 47K
R7290 47K
R7262 1K
C7227 0.1uZ 25V
R7241 18K

TO_CPLD
(MONI_DOWN
(HDMI_INT
(HDMI_HPOW
(DVI_SCDT
(DVI_HPLG

(1BIT_PROTECT
(4586_INT
(C1_PLUG
(SP_PLUG

R7249 10K
R7292 10K
R7293 18K
+3.3V(D)
R7243 10K
R7242 10K

TO_AD
(SDA_B_1
(SCL_B_1
(SDA_B_2
(SCL_B_2

TO_VCI1
(SDA_C_0
(SCL_C_0

TO_VCI2
(SDA_C_0
(SCL_C_0

N_MONI

TO_POWER
(+3.3V(D)
(D_POW

TO_P-CON
(DVI_HPOW_A
(DVI_HPOW_B
(BS_RST
(MONI_DOWNA
(MONI_DOWNB
(AFT1_AD
(AFT2_AD
(AGC1_AD
(AGC2_AD
(PSEL1_AD
(PSEL2_AD
(N_MONI
(TV_COL15
(TV_COL25

(L_MUTE5
(CSEN2
(MSP_RST5
TO_HOSTIF
(SCL_A
(SDA_A
(SCL_B
(SDA_B
(SCL_C
(SDA_C

SC3201 N0491FJ
TO AV

33	GND	Y/VOUT2
32	Y/VOUT2	C/COMP2_Cb
31	GND	COMP2_Cr
30	C/COMP2_Cb	COMP1_Cr
29	GND	C/COMP1_Cb
28	COMP2_Cr	Y/VOUT1
27	GND	DVI_SR
26	COMP1_Cr	DVI_SG
25	GND	DVI_SB
24	C/COMP1_Cb	HDMI_H
23	GND	HDMI_V
22	Y/VOUT1	HDMI_PR
21	GND	HDMI_Y
20	DVI_SR	HDMI_PB
19	GND	DVI_H
18	DVI_SG	DVI_V
17	GND	MFIL_SEL
16	DVI_SB	
15	GND	
14	HDMI_H	
13	GND	
12	HDMI_V	
11	GND	
10	HDMI_Pr	
9	GND	
8	HDMI_Y	
7	GND	
6	HDMI_Pb	
5	GND	
4	DVI_H	
3	DVI_V	
2	GND	
1	MFIL_SEL	

TO AV
SC3202 N0464FJ

50	HDMI_INT	
49	HDMI_HPOW	
48	SDA_B_2	
47	SCL_B_2	
46	GND	
45	+3.3V(D)	
44	DVI_SCDT	
43	DVI_HPOW	
42	GND	
41	+9V(B)	
40	VCI_RST	
39	GND	
38	AFT_1	AFT1_AD
37	AFT_2	AFT2_AD
36	AGC_1	AGC1_AD
35	AGC_2	AGC2_AD
34	GND	
33	TXD1	
32	RXD1	
31	SDA_B	SDA_A
30	SCL_B	SCL_A
29	SDA_A	
28	SCL_A	
27	GND	
26	MONI_DOWN	MONI_DOWNA
25	LMUTE	L_MUTE5
24	GND	
23	HDMI_RST_1	TO_CPLD HDMI_RST_1
22	BS_RST	BS_RST
21	GND	
20	TV_COL1	TV_COL15
19	TV_COL2	TV_COL25
18	GND	
17	SSYSTEM	
16	MSP_RST5	MSP_RST5
15	GND	
14	SDA_INT	4586_INT
13	SP_PLUG	SP_PLUG
12	C1_PLUG	C1_PLUG
11	GND	
10	CSEN2	CSEN2
9	TEXT_EN	
8	AVPWB	PSEL2_AD
7	GND	
6	SDA5	I2C_SDA5
5	SCL5	I2C_SCL5
4	FAN_CONT	FAN_CONT
3	I2CEXT	I2CEXT
2	D_POW	D_POW
1	GND	

R7256 0

TO_VCI1
(Y/VOUT1
(C/COMP1_Cb
(COMP1_Cr
(VCI_RST

TO_VCI2
(Y/VOUT2
(C/COMP2_Cb
(COMP2_Cr

TO_AD
(DVI_SR
(DVI_SG
(DVI_SB
(DVI_H
(DVI_V
(HDMI_PR
(HDMI_Y
(HDMI_PB
(HDMI_H
(HDMI_V
(MFIL_SEL
(+9V(B)

TO_CPLD
(HDMI_RST_1

*P7202 BA005WJFM
*P7203 BA005WJFM
*P7207 BA005WJFM
*P7208 BA005WJFM
*P7211 BA005WJFM
*P7210 BA005WJFM
*P7215 BA005WJFM
*P7221 BA005WJFM

MAIN UNIT 11/11
DUNTKC794DE01
(PWBXC794WJ)

D47

D48

■LCD CONTROL Unit-1/7

LCD CONT 1 (GAMMA)

LCD_CONT UNIT 1/7

*PWB4601
DUNTKC793DE01
(PWBXC793WJ)

TO TMDS RX LV

SCN301
N391FJ

IC4601
IXB001WJ

IC4603
T7WH123U

ROM
IC4602
IXB272WJ

TO POWER
D3.3V_GAMMA

TO QS
RR0 RR1 RR2 RR3 RR4 RR5 RR6 RR7
RG0 RG1 RG2 RG3 RG4 RG5 RG6 RG7
RB0 RB1 RB2 RB3 RB4 RB5 RB6 RB7
RS_CLK RS_HS RS_VS RS_DE RF_CLK RF_HS RF_VS RF_DE

TO MICOM
SYNC_DET IC1_CONF IC1_DONE MP_CLK MP_DA IC1_CS DDC_RST ROM1_WP N_RST_PL

D49 D50

■LCD CONTROL Unit-2/7 (LC-26GA5U)

LCD CONT 2 (QS)

LCD_CONT UNIT 2/7
.DUNTKC793DE01
(PWBXC793WJ)

TO POWER
TO MICOM
TO GAMMA
TO LCD CONT

QS
IC4901
IXB002WJ

ROM
★IC4903
IXB243WJ

FIFO
IC4902
IXA986WJ

H G F E D C B A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

D51 D52

■LCD CONTROL Unit-2/7 (LC-32GA5U)

LCD CONT 2 (QS)

LCD_CONT UNIT 2/7
.DUNTKC793DE02
(PWBXC793WJ)

TO POWER
D3.3V_QS

TO MICOM
DDC_RST
MP_CLK
MP_DA
IC2_CS
IC2_CONF

TO GAMMA
RR7
RR6
RR5
RR4
RR3
RR2
RR1
RR0
RG7
RG6
RG5
RG4
RG3
RG2
RG1
RG0
RB7
RB6
RB5
RB4
RB3
RB2
RB1
RB0
RS_CLK
RS_HS
RS_VS
RS_DE
RF_CLK
RF_HS
RF_VS
RF_DE

ROM
*IC4903
IXB242WJ

QS
IC4901
IXB002WJ

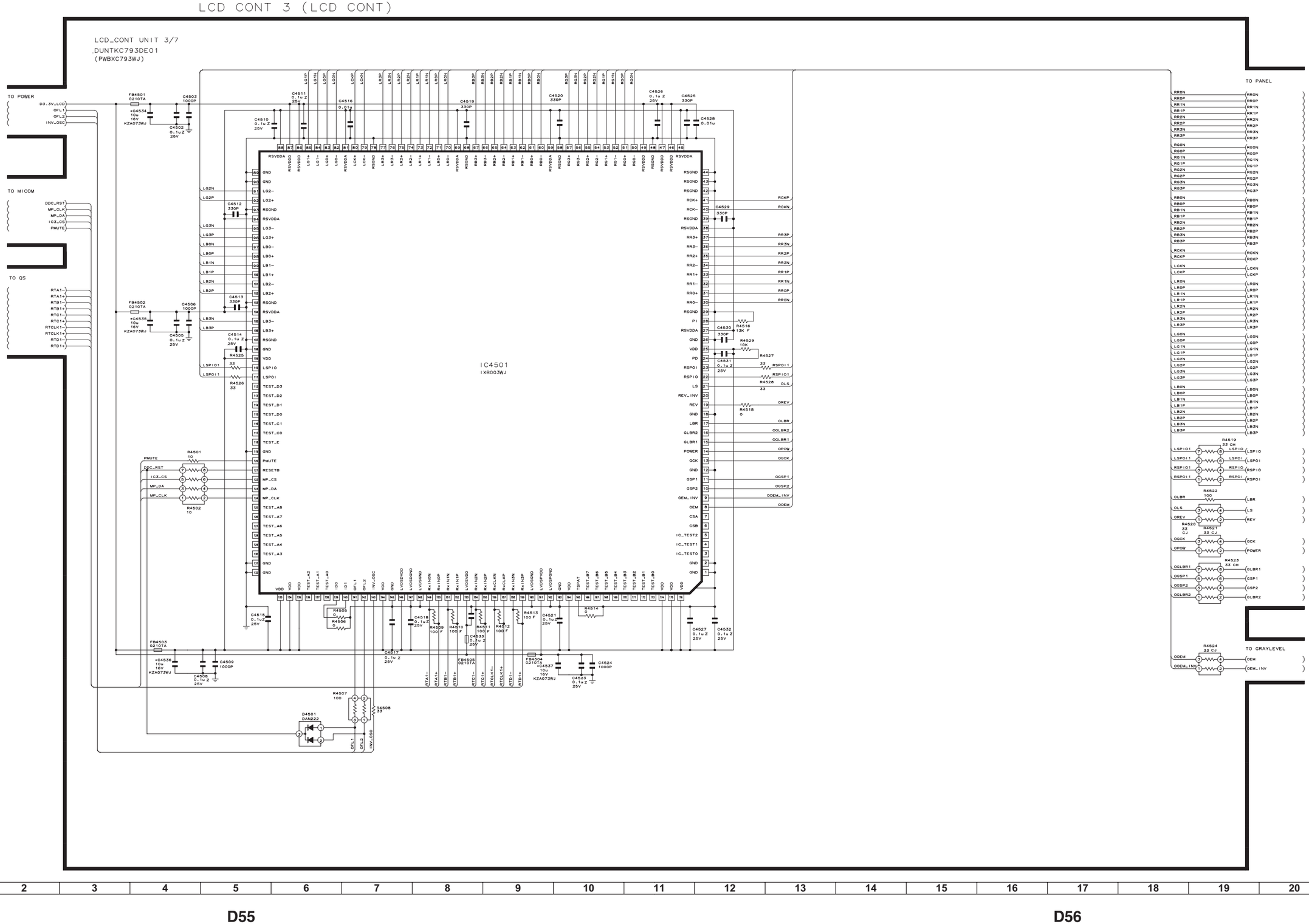
FIFO
IC4902
IXA986WJ

TO LCD CONT
RTA1-
RTA1+
RTB1-
RTB1+
RTC1-
RTC1+
RTCLK1-
RTCLK1+
RTD1-
RTD1+

D53

D54

■LCD CONTROL Unit-3/7


LCD CONT 3 (LCD CONT)
LCD_CONT UNIT 3/7
.DUNTKC793DE01
(PWBXC793WJ)
TO POWER
D3.3V_LCD
OFL1
OFL2
INV_OSC
TO MICOM
DDC_RST
MP_CLK
MP_DA
IC3_CS
PMUTE
TO QS
RTA1-
RTA1+
RTB1-
RTB1+
RTC1-
RTC1+
RTCLK1-
RTCLK1+
RTD1-
RTD1+
IC4501
IXB003WJ
TO PANEL
TO GRAYLEVEL
D4501
DAN222
FB4501
FB4502
FB4503
FB4504
FB4505
R4501
R4502
R4507
R4508
R4516
13K F
R4527
R4528
R4529
R4530
R4531
R4532
R4533
R4534
R4535
R4536
R4537
R4538
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R4623
R4624
C4501
C4502
C4503
C4504
C4505
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C4532
C4533
C4534
C4535
C4536
C4537
C4538
C4539
C4540

■LCD CONTROL Unit-4/7

LCD CONT 4 (PANEL)

LCD_CONT UNIT 5/7
DUNTKC793DE01
(PWBXC793WJ)

TO LCD CONT

TO GRAYLEVEL

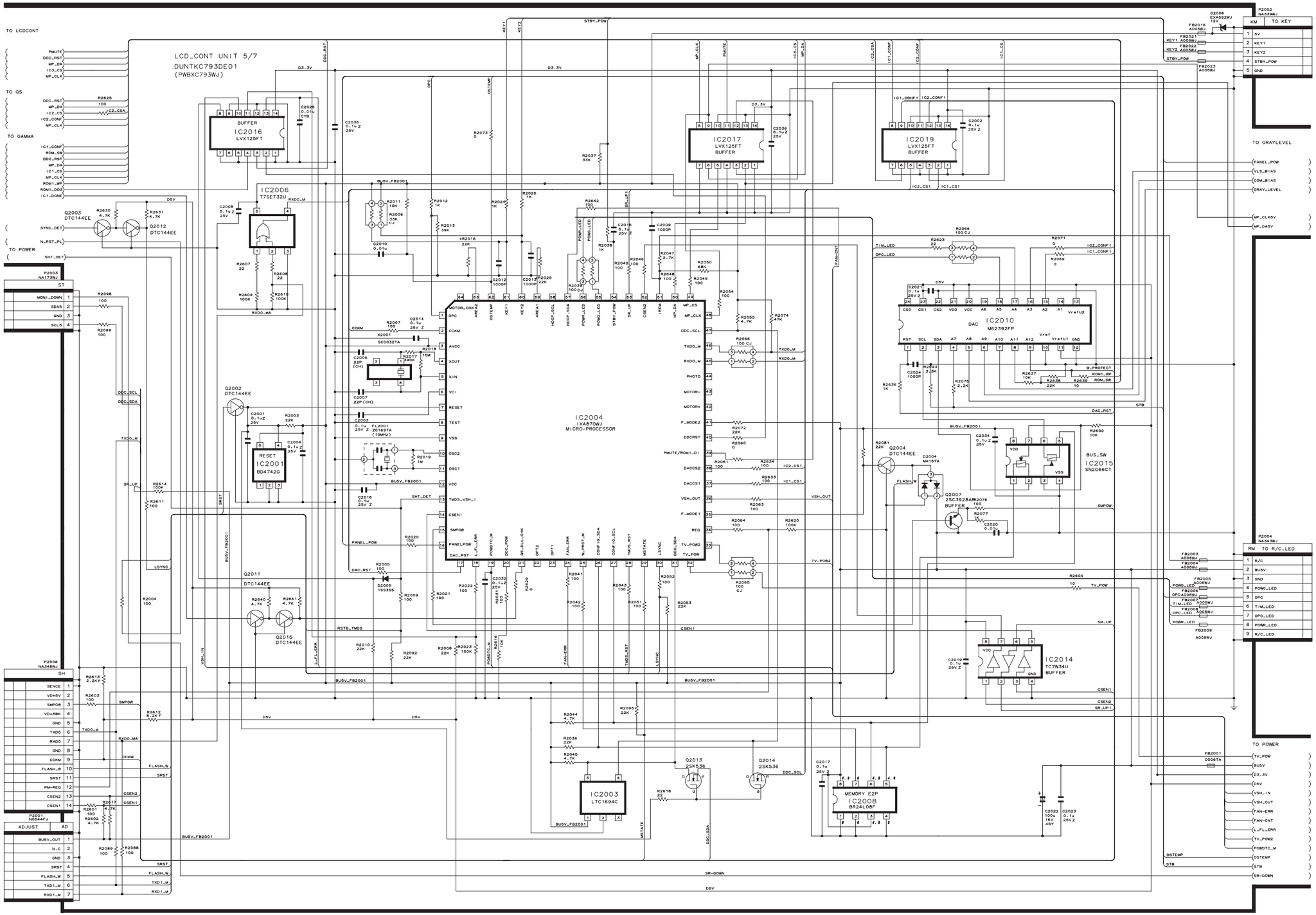
TO POWER

D57

D58

■LCD CONTROL Unit-5/7 (LC-26GA5U)

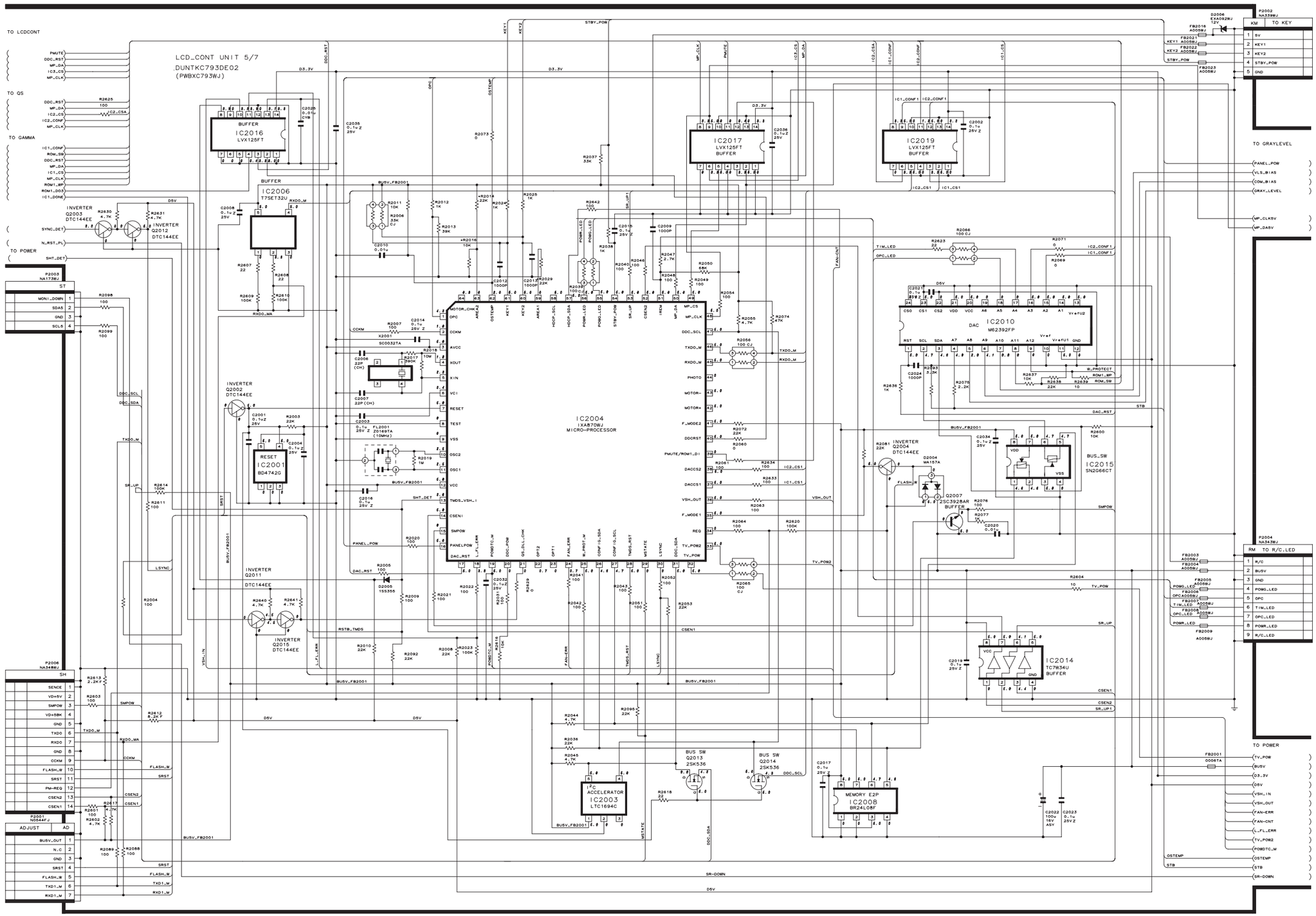
LCD CONT 5 (MICOM)



D59 D60

■LCD CONTROL Unit-5/7 (LC-32GA5U)

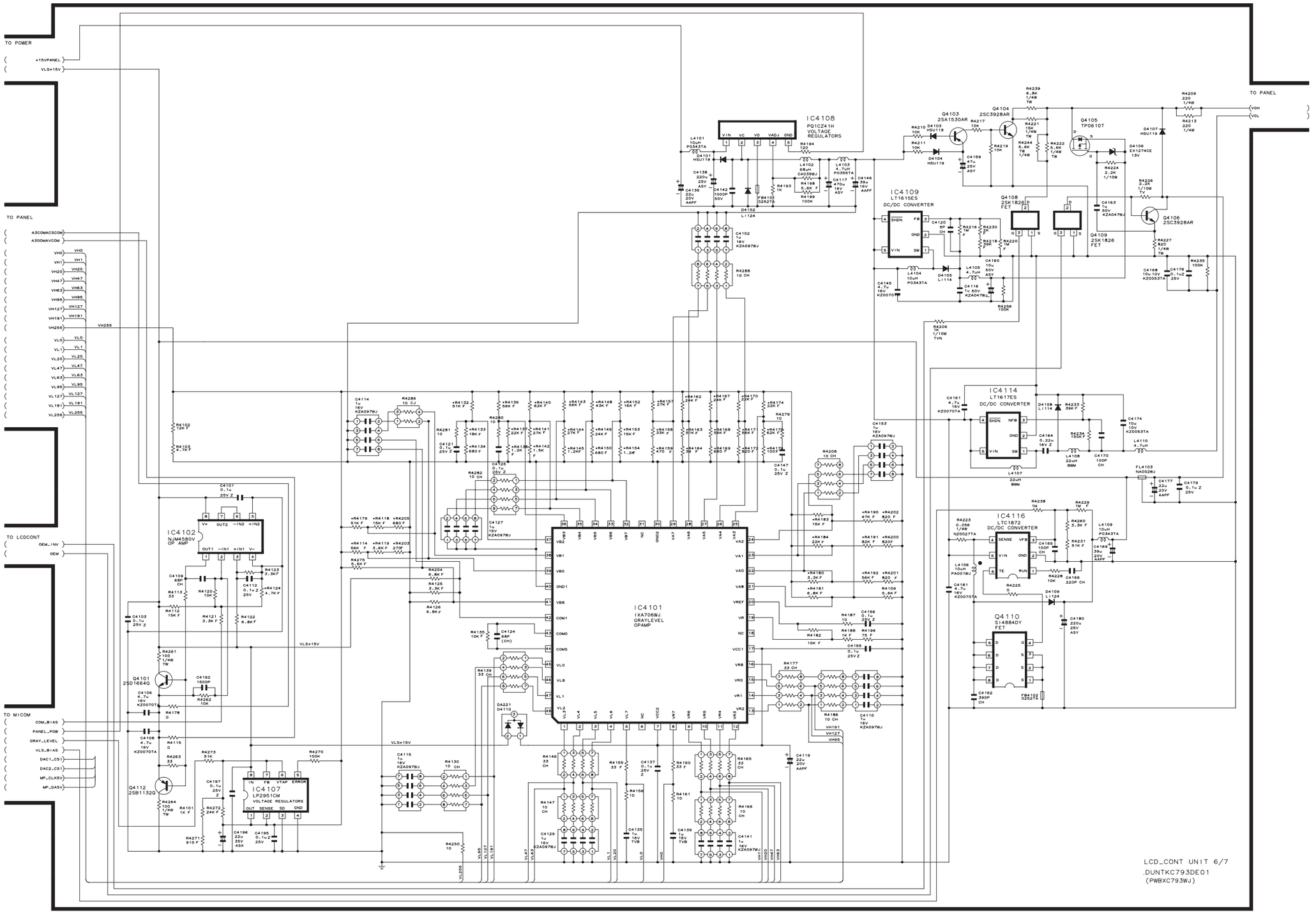
LCD CONT 5 (MICOM)



D61 D62

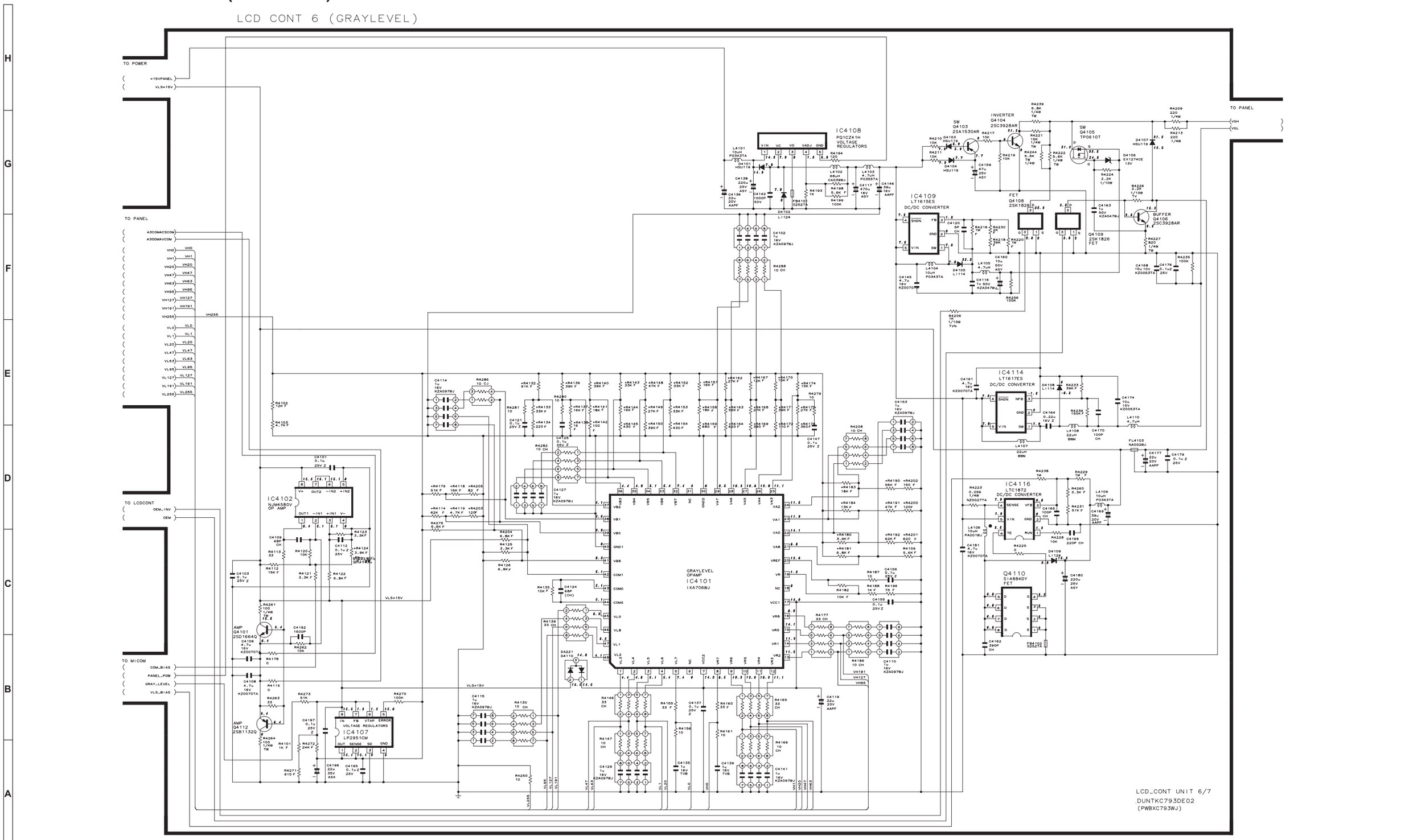
■LCD CONTROL Unit-6/7 (LC-26GA5U)

LCD CONT 6 (GRAYLEVEL)



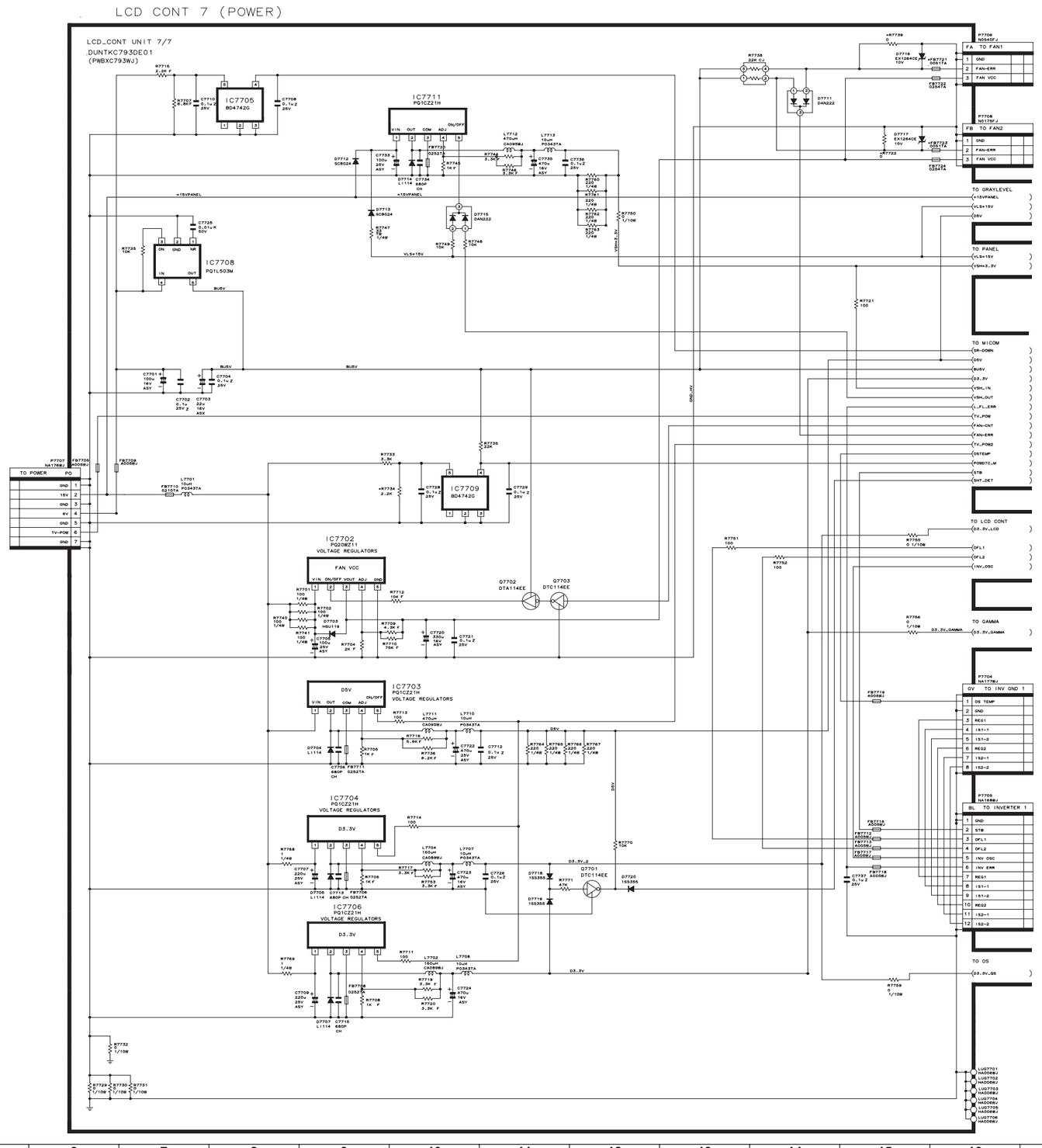
D63 D64

■LCD CONTROL Unit-6/7 (LC-32GA5U)



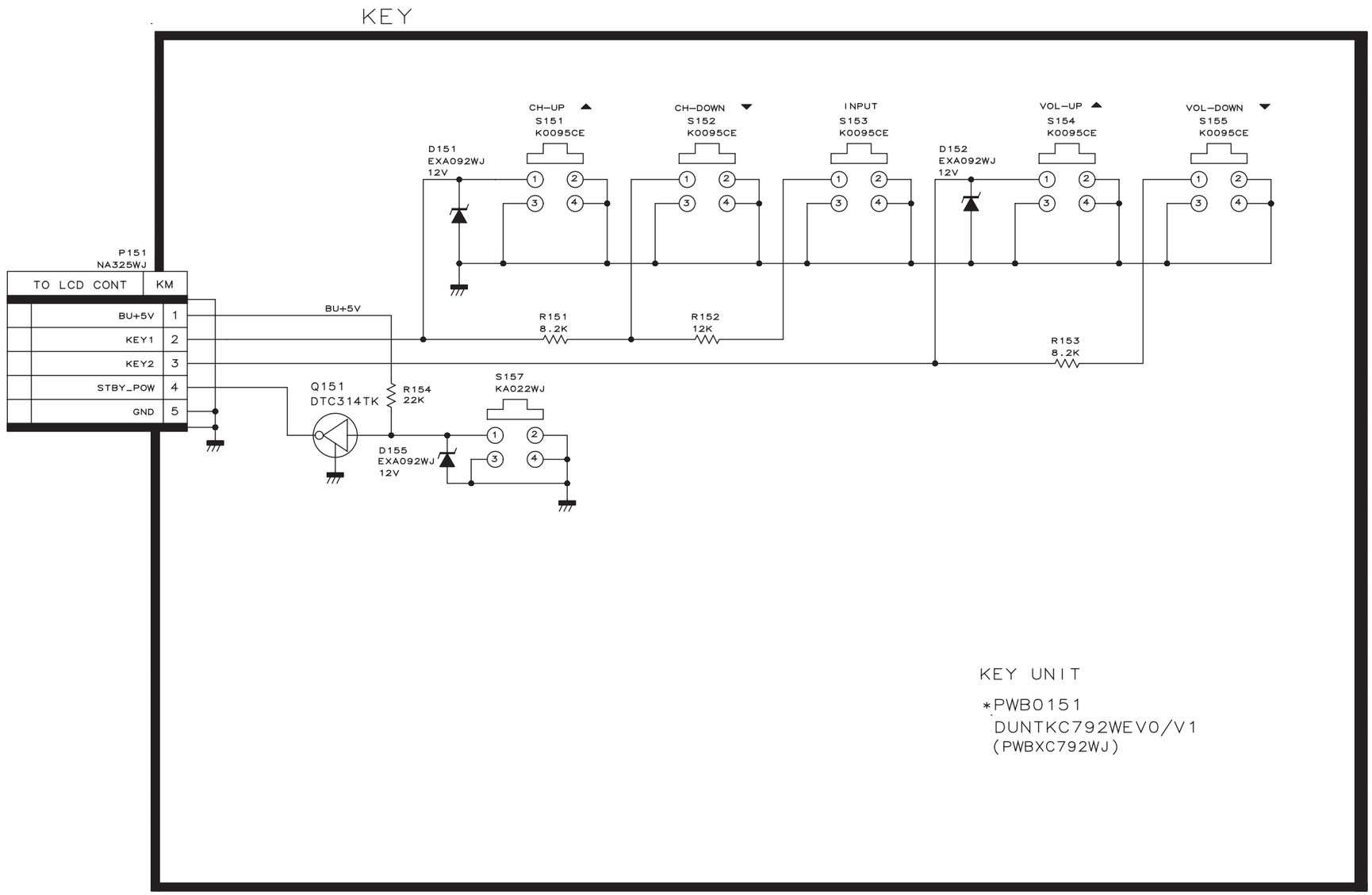
D65 D66

■LCD CONTROL Unit-7/7

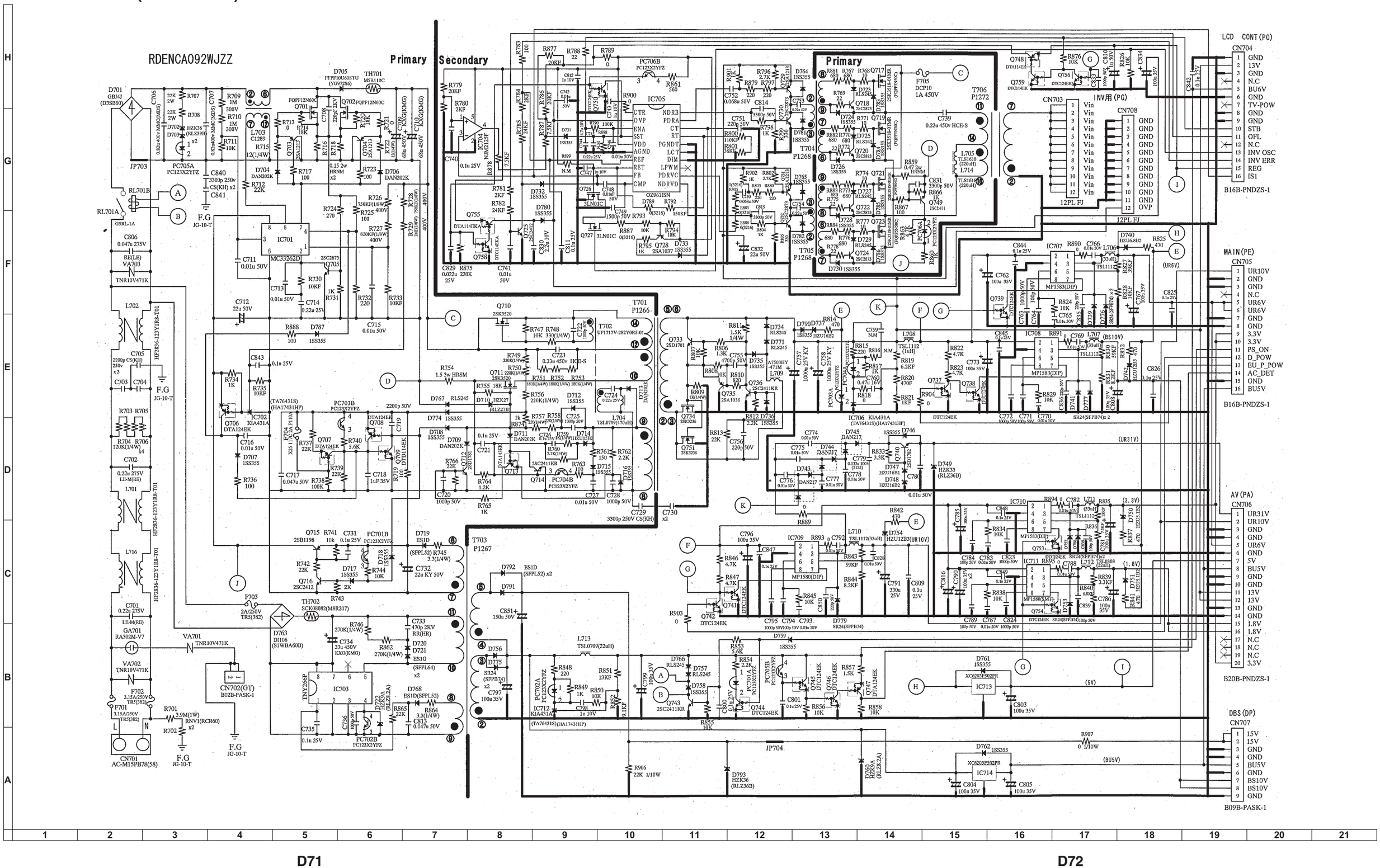


D67 D68

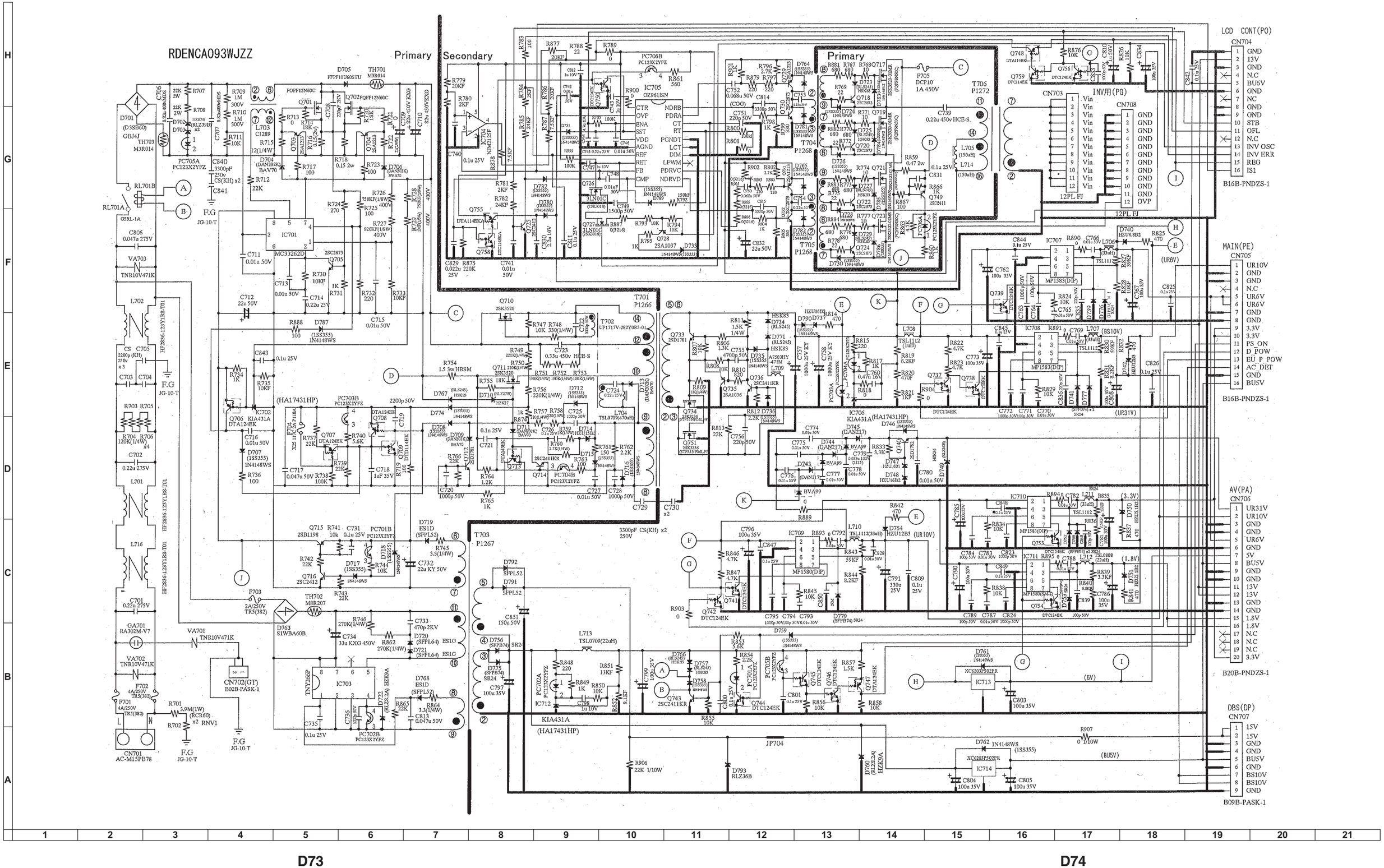
■KEY Unit


KEY
CH–UP
S151
K0095CE
CH–DOWN
S152
K0095CE
INPUT
S153
K0095CE
VOL–UP
S154
K0095CE
VOL–DOWN
S155
K0095CE
D151
EXA092WJ
12V
D152
EXA092WJ
12V
P151
NA325WJ
TO LCD CONT
KM
BU+5V 1
KEY1 2
KEY2 3
STBY_POW 4
GND 5
BU+5V
R151
8.2K
R152
12K
R153
8.2K
Q151
DTC314TK
R154
22K
S157
KA022WJ
D155
EXA092WJ
12V
KEY UNIT
*PWB0151
DUNTKC792WEV0/V1
(PWBXC792WJ)

■POWER Unit (LC-26GA5U)



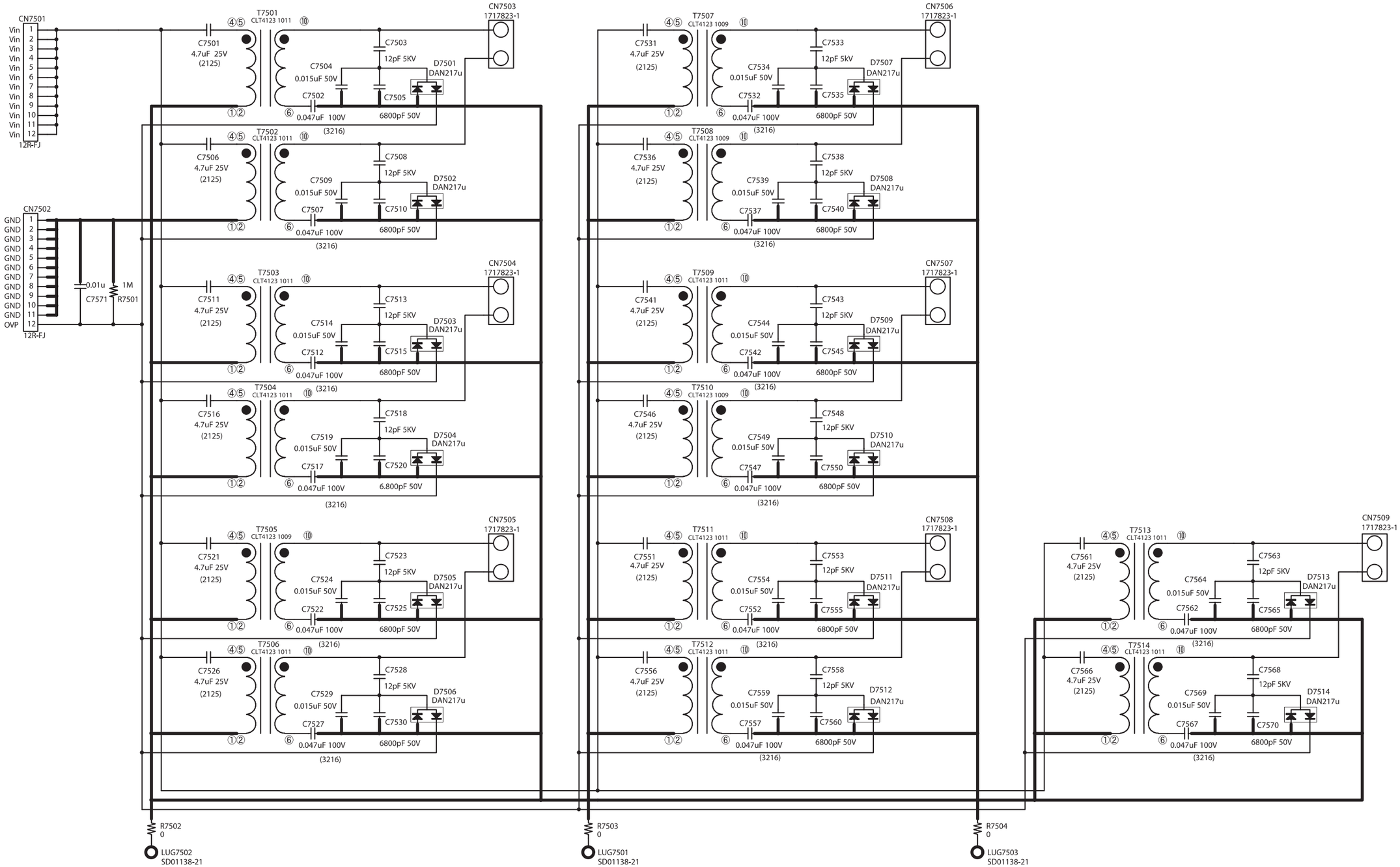
■POWER Unit (LC-32GA5U)



D73 D74

■INVERTER Unit (LC-26GA5U)

RUNTKA094WJZZ



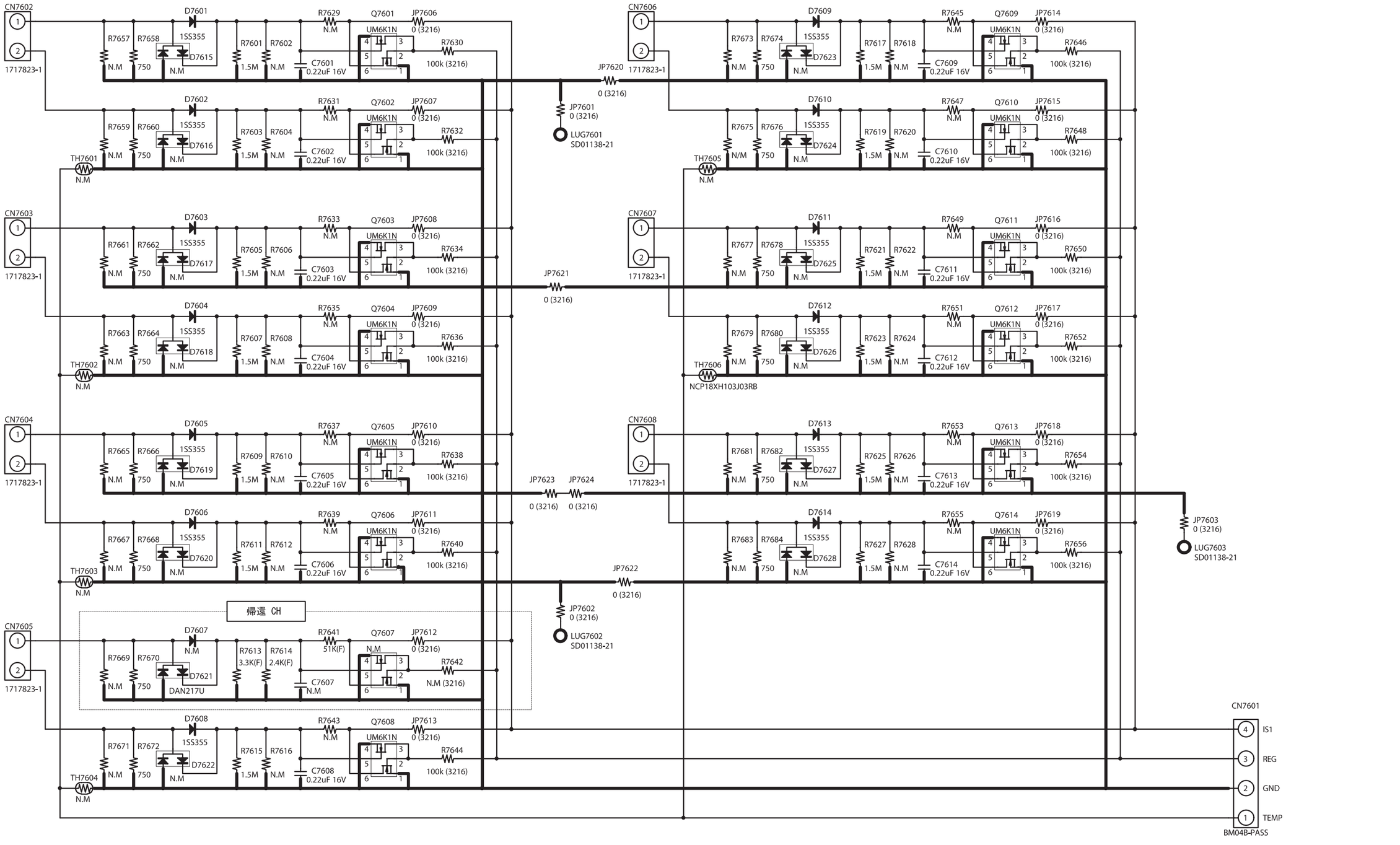
H G F E D C B A

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

D75 D76

■INVERTER GROUND Unit (LC-26GA5U)

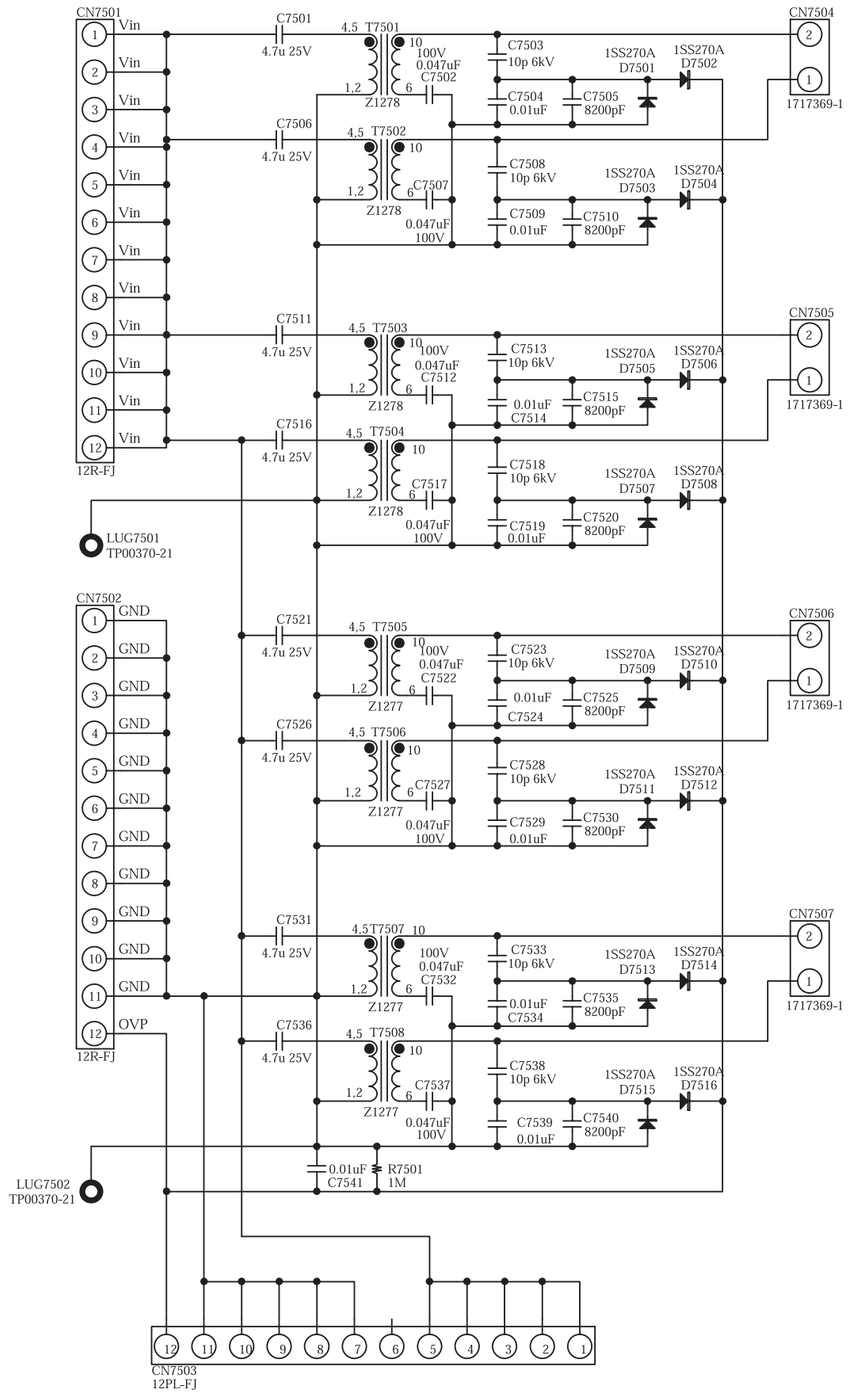
RUNTKA095WJZZ



D77 D78

■INVERTER-1 Unit (LC-32GA5U)

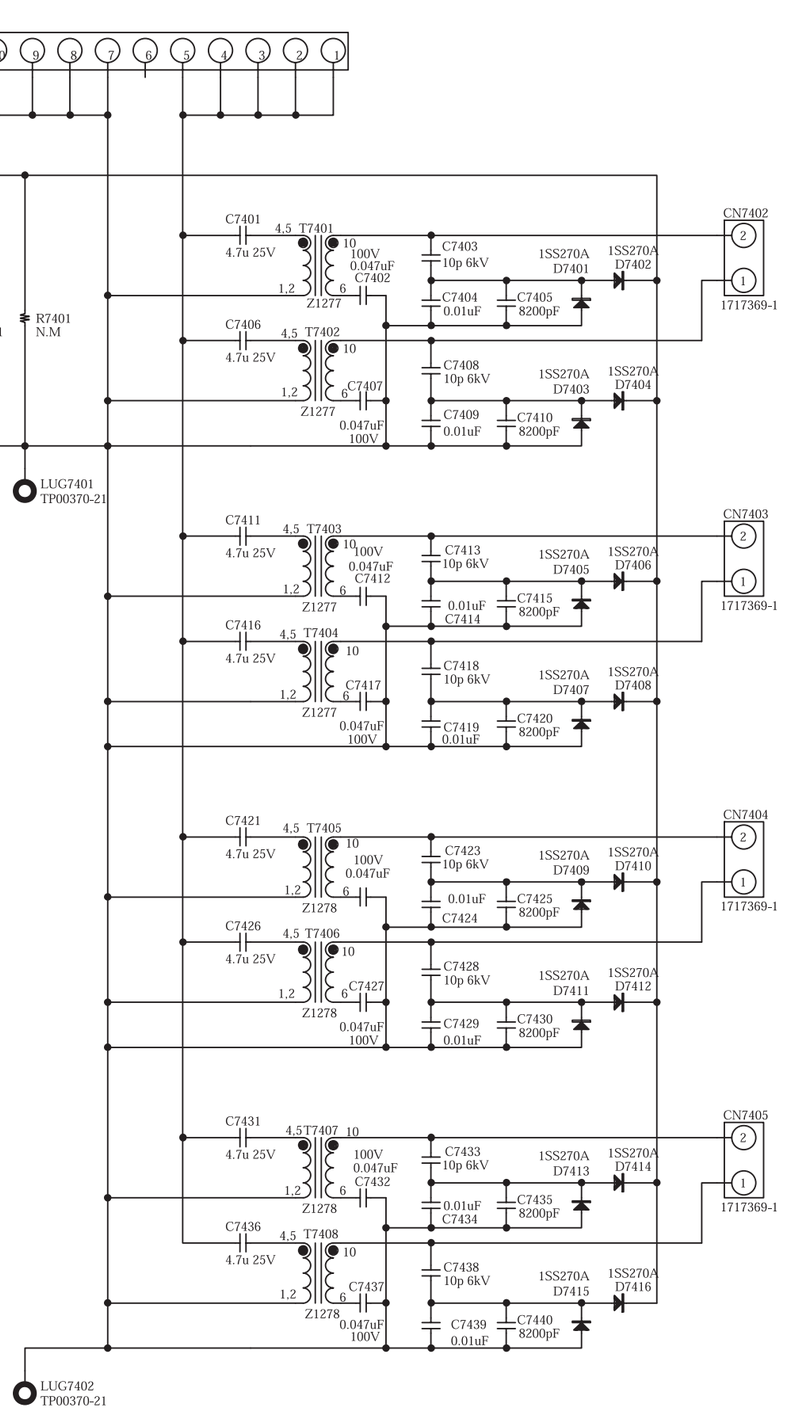
RUNTKA096WJZZ



D79

■INVERTER-2 Unit (LC-32GA5U)

RUNTKA097WJZZ



D80

■INVERTER GROUND Unit (LC-32GA5U)

RUNTKA098WJZZ

CN7601
SM04B-PASS
1 2 3 4
OSTEMP SGND REG IS1

LUG7602 SD01138-21
LUG7603 N.M
LUG7605 N.M
LUG7606 SD01138-21

IP7601 0 (3216) R7606 100K (3216) Q7601 UM6K1N
IP7602 0 (3216) R7612 100K (3216) Q7602 UM6K1N
IP7603 0 (3216) R7618 100K (3216) Q7603 NM6K1N
IP7604 0 (3216) R7624 100K (3216) Q7604 UM6K1N
IP7605 0 (3216) R7630 100K (3216) Q7605 UM6K1N
IP7606 0 (3216) R7636 100K (3216) Q7606 UM6K1N
IP7607 0 (3216) R7642 100K (3216) Q7607 UM6K1N
IP7608 0 (3216) R7648 N.M (3216) Q7608 N.M
IP7609 0 (3216) R7654 100K (3216) Q7609 UM6K1N
IP7610 0 (3216) R7660 100K (3216) Q7610 UM6K1N
IP7611 0 (3216) R7666 100K (3216) Q7611 UM6K1N
IP7612 0 (3216) R7672 100K (3216) Q7612 UM6K1N
IP7613 0 (3216) R7678 100K (3216) Q7613 UM6K1N
IP7614 0 (3216) R7684 100K (3216) Q7614 UM6K1N
IP7615 0 (3216) R7690 100K (3216) Q7615 UM6K1N
IP7616 0 (3216) R7696 100K (3216) Q7616 UM6K1N

R7605 N.M C7601 0.22uF
R7611 N.M C7602 0.22uF
R7617 N.M C7603 0.22uF
R7623 N.M C7604 0.22uF
R7629 N.M C7605 0.22uF
R7635 N.M C7606 0.22uF
R7641 N.M C7607 0.22uF
R7647 51K C7608 N.M
R7653 N.M C7609 0.22uF
R7659 N.M C7610 0.22uF
R7665 N.M C7611 0.22uF
R7671 N.M C7612 0.22uF
R7677 N.M C7613 0.22uF
R7683 N.M C7614 0.22uF
R7689 N.M C7615 0.22uF
R7695 N.M C7616 0.22uF

R7604 N.M R7603 1.5M D7601 1SS355 D7617 N.M R7602 N.M R7601 750
R7610 N.M R7609 1.5M D7602 1SS355 D7618 N.M R7608 N.M R7607 750
R7616 N.M R7615 1.5M D7603 1SS355 D7619 N.M R7614 N.M R7613 750
R7622 N.M R7621 1.5M D7604 1SS355 D7620 N.M R7620 N.M R7619 750
R7628 N.M R7627 1.5M D7605 1SS355 D7621 N.M R7626 N.M R7625 750
R7634 N.M R7633 1.5M D7606 1SS355 D7622 N.M R7632 N.M R7631 750
R7640 N.M R7639 1.5M D7607 1SS355 D7623 N.M R7638 N.M R7637 750
R7646 2.4KF R7645 1.8KF D7608 N.M D7624 DAN217U R7644 N.M R7643 1KF
R7652 N.M R7651 1.5M D7609 1SS355 D7625 N.M R7650 N.M R7649 750
R7658 N.M R7657 1.5M D7610 1SS355 D7626 N.M R7656 N.M R7655 750
R7664 N.M R7663 1.5M D7611 1SS355 D7627 N.M R7662 N.M R7661 750
R7670 N.M R7669 1.5M D7612 1SS355 D7628 N.M R7668 N.M R7667 750
R7676 N.M R7675 1.5M D7613 1SS355 D7629 N.M R7674 N.M R7673 750
R7682 N.M R7681 1.5M D7614 1SS355 D7630 N.M R7680 N.M R7679 750
R7688 N.M R7687 1.5M D7615 1SS355 D7631 N.M R7686 N.M R7685 750
R7694 N.M R7693 1.5M D7616 1SS355 D7632 N.M R7692 N.M R7691 750

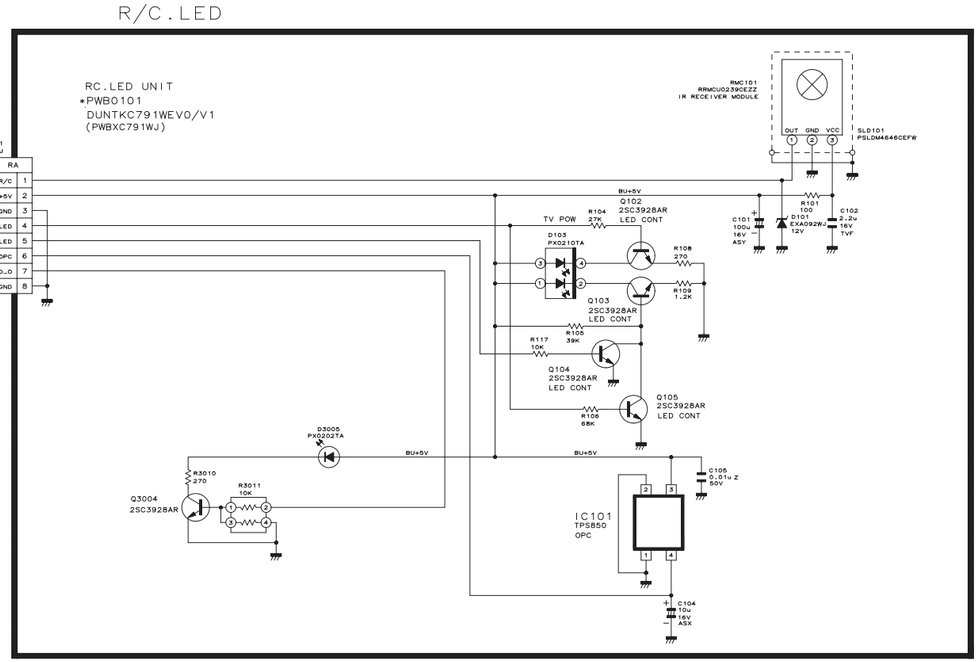
TH7601 N.M
TH7602 N.M
TH7603 N.M
TH7604 N.M
TH7605 N.M
TH7606 N.M
TH7607 NCP18XH103J03RB

LUG7601 SD01138-21
LUG7604 N.M

CN7602 1717823-1
CN7603 1717823-1
CN7604 1717823-1
CN7605 1717823-1
CN7606 1717823-1
CN7607 1717823-1
CN7608 1717823-1
CN7609 1717823-1

D81 D82

■R/C, LED Unit


R/C.LED
RC.LED UNIT
*PWB0101
DUNTKC791WEV0/V1
(PWBXC791WJ)
P101
NA047WJ
TO AV 2
RA
R/C
BU+5V
GND
POWR_LED
OPC
LED_O
RMC101
RMWCU0239CEZZ
IR RECEIVER MODULE
OUT GND VCC
SLD101
PSLDM4646CEFW
TV POW
R104 27K
Q102 2SC3928AR LED CONT
C101 100u 16V ASY
D101 EXA092WJ 12V
R101 100
C102 2.2u 16V TVF
D103 PX0210TA
R108 270
R109 1.2K
Q103 2SC3928AR LED CONT
R105 39K
R117 10K
Q104 2SC3928AR LED CONT
R106 68K
Q105 2SC3928AR LED CONT
D3005 PX0202TA
R3010 270
R3011 10K
Q3004 2SC3928AR
IC101 TPS850 OPC
C105 0.01u Z 50V
C104 10u 16V ASX